EQUATIONAL ARITHMETIC,

INTEREST, ANNUITIES, LIFE ASSURANCE,

AND

GENERAL COMMERCE;

WITH

VARIOUS TABLES

BY WHICH ALL CALCULATIONS MAY BE GREATLY FACILITATED.

SECOND PART.

By W. HIPSLEY.

SECOND PART.

—◆—

GENERAL INTRODUCTION.

The reduction of all fractional quantities to decimals will be found in many cases the most convenient method of computation. We have given at the commencement of the First Part the manner of performing the first four rules on decimal quantities, which of course include all that is required for the *mere working* of questions; to this we shall here add the method of reducing ordinary fractions to decimals, leaving further details to the numerous treatises on this branch of arithmetic.

A vulgar fraction, as it is usually termed, is thus expressed, $\frac{3}{4}$ (three-fourths), of which the upper figure is called the numerator or nominator, and the lower the denominator. It signifies that a unit is to be divided into four parts, and three of them taken. If we propose to divide the unit into ten parts, and take as many as shall be equal to $\frac{3}{4}$, $\frac{3}{4} \times 10$ or $\frac{30}{4}$, that is, 30 divided by 4, or 7 tenths and $\frac{2}{4}$ over, equals the amount; but $\frac{2}{4} \times 10$ or $\frac{20}{4}$ equals 5 tenths of 7 tenths, or $\frac{75}{100}$ths of unity, which is written ·25 (twenty-five hundredths), the dot or decimal point standing in the place of one, the succeeding figures are always equal to the number of ciphers contained in the denominator. The rule therefore is,—to reduce vulgar fractions to decimals, add ciphers to the nominator, and divide by the denominator till nothing remains; or a sufficient number of figures be obtained as shall equal the fraction, except a very minute difference, which we can make as small as we please.

To reduce three farthings to the decimal of a pound: $\frac{1}{4}d.$ is $\frac{1}{960}$th of a pound; $\frac{3}{4}$ equals $\frac{3}{960}$ths, which, divided as above, will produce ·003125. In this manner Table I., Part I., may be constructed, which contains the decimals corresponding with every sum short of a pound.

There is no essential difference between arithmetic and algebra; the same principles apply to both; but there is this important distinction in their functions:—Arithmetic considers quantities solely with regard to their values; algebra, without reference to their values, deals only with their relation to each other. Hence the letters of the alphabet are used to denote the quantities, and various symbols represent the additions, subtractions, multiplications, etc. which these quantities undergo. Known quantities are usually represented by the first letters of the alphabet, as a, b, c; and unknown quantities, those which it is the object of the operation to discover, by the last letters, as x, y, z. The sign of equality, $=$, enunciated *equal to*, denotes that the quantities between which it is placed are equal.

Thus, $a = b$ signifies a is equal to b.

$a + b$, a plus b, means that b is to be added to a.

$a - b$, a minus b, means that b is to be subtracted from a.

$a \sim b$, the difference between a and b.

$a \pm b$, a plus or minus b.

$a \mp b$, sum or difference of a and b.

$a \times b$, a multiplied by b; which also is represented by $a \cdot b$ and ab; $abcd$, the continued products of a, b, c, d.

$a \div b$, or $\dfrac{a}{b}$, a divided by b.

$a > b$, a is greater than b.

$a < b$, a is less than b.

$4a$, a taken four times; 4 is called the coefficient of the quantity a.

$\frac{2}{3}x$, two-thirds of x.

$5ax$, five times the product of a multiplied by x.

When no numeral coefficient is prefixed to a quantity, unity is understood to be its coefficient; thus the coefficient of a, or of ab, is 1; that is, $a = 1a$, and $ab = 1ab$.

The product of a number multiplied by itself is called its square, or second power; when multiplied twice by itself, its cube, or third power; when four times, the fourth power, and so on.

Thus the square or second power of $x = xx$, and is expressed by x^2.

Cube or third power of $x = xxx$ . . x^3
The fourth power of $x = xxxx$ . . x^4
The fifth power of $x = xxxxx$ . . x^5

And when x is supposed to be repeated n times, it is expressed by x^n.

To *involve* a quantity to any power, is to find that power of the quantity. Thus, the fourth power of x is x^4; x is called the fourth root of x^4.

To *extract* any root of a quantity, is to find the factor whose continued multiplication produces that quantity; to express which operation the radical sign is used. Thus, $\sqrt{a}$ signifies the square root of a; $\sqrt[3]{x}$ the cube root of x; $\sqrt[4]{a}$ the fourth root of a, etc.

When an operation is to be performed on the product of several quantities, a parenthesis, vinculum, or bar is used, thus: $(a + b - c)\,x$ means that the product of a plus b minus c is to be multiplied by x.

$\overline{a - x}\,y^2$, a minus x is to be multiplied by the square of y.

$\left.\begin{array}{l} a \\ -3c \\ +d \end{array}\right| x^3$ Three times c, subtracted from a, and added to d, is to be multiplied by the cube of x, or the product of xxx, or $x \times x \times x$.

The signs $+$, $-$, of which $+$ (*plus*) is termed the positive, and $-$ (*minus*) the negative sign, have a more extended signification in algebra than simply that of addition and subtraction. Thus, if a or $+a$ signifies property, $-a$ may be used to signify an equal quantity of debt. If $+8$ signifies eight miles travelled in an *easterly* direction, -8 signifies eight miles *west*. In general, the negative always denotes the opposite process to the positive sign.

TRANSLATIONS OF FORMULÆ USED IN THE FORMER PART OF THIS WORK.

Since $(1 \cdot 03)^1$, $(1 \cdot 03)^2$, $(1 \cdot 03)^3$, etc. represent the root, square, and cube of the quantity $1 \cdot 03$, that is the product of the root multiplied by itself once and twice respectively; and since the sign *minus* represents the reverse operation to the positive sign, a series may be formed having negative exponents:

$$(1 \cdot 03)^{-1},\ (1 \cdot 03)^{-2},\ (1 \cdot 03)^{-3},\ \text{etc.},$$

which of course signifies $\dfrac{1}{1 \cdot 03}$, $\dfrac{1}{(1 \cdot 03)^2}$, $\dfrac{1}{(1 \cdot 03)^3}$, or unity divided by $1 \cdot 03$, by the square of $1 \cdot 03$, and by the cube of $1 \cdot 03$.

r^{10} Present value of £1 due at the end of ten years.

a_{50} Present value of an annuity of £1 at fifty years of age.

$P_{45\cdot10}$ Probability of a life aged forty-five living ten years.

$a_{\overline{m}|n}$ Present value of an annuity on a life aged m deferred n years.

$\dfrac{a_{\overline{m}|}}{1 + a_{\overline{m}|}}$ Present value of an annuity on a life aged m deferred n years, divided by the present value of an annuity on a life aged m, for the next n years, added to unity.

l_{31} Number living at thirty-one years of age, according to the table.

$a_{\overline{m}.\overline{-1}|}$ Present value of an annuity on a life aged m for the next n years, less one.

R_m Present value of the reversion of £1 at m years of age; *i.e.* £1 to be received on the failure of a life aged m years.

$\dfrac{R_m}{a_{n-1|}}$ Present value of the reversion of £1 at m years of age, divided by the present value of an annuity of £1 on a life aged m, for the next n years, less one.

$R_{\overline{m}|n}$ Present value of a reversion at m years of age, deferred n years; *i.e.* to be received if the life fail at any time *after* the next n years.

$R_{\overline{m}|n}$ Present value of a reversion at m years of age, if the life fail within the next n years.

$P_{\overline{18. 23, 10.}}$ Probability that the survivor of two lives aged eighteen and twenty-three, will outlive the term of ten years.

$R_{\overline{19, 24}}^{d}$ Present value of a reversion to be received on the failure of the last of two lives aged nineteen and twenty-four.

THE CHAIN RULE.

All the questions in this work are capable of being stated in the form of equations, after the manner which is usually called the Chain rule; a much simpler and more convenient method than the use of the Rules of Three Direct and Inverse, Double Rule of Three, &c. &c., as in the ordinary school arithmetics. To illustrate the principle, let us take a simple example.

What is the cost of 9 lbs. of sugar if 11 lbs. cost 7s. 4d.?

We know that the answer when found will be equal in value to the 9 lbs. of sugar. We may therefore call it x, and place it in this form :

$$x = 9 \text{ lbs.}$$

This is what is called an equation, of the simplest form. In order to solve it, we place the next equation, of known quantities, under it.

$$x = 9 \text{ lbs.}$$
$$11 \text{ lbs.} = 7s. \ 4d. \text{ or } 88d.$$

Now since x is equal to 9 lbs., and 11 lbs. is equal to $88d.$, it is evident that if equal quantities be increased by equal quantities, they will be equal to one another ; so $x \times 11$ must equal 9×88, or 792. We know also that x must be some number which multiplied by 11 will produce 792. The quotient multiplied by the divisor plus the remainder, if any, equals the dividend; we therefore divide the right side of the equation by what we have on the left.

$$11 \ ) \ 792 \ (\ 72d. \text{ or } 6s.$$
$$\underline{77}$$
$$22$$
$$\underline{22}$$
$$00$$

The product 6s. gives us the answer, or the price of 9 lbs. Using letters instead of figures, the principle is thus algebraically expressed.

Let A, B, C, represent several denominations of money, and a, b, c, &c., the quantities of each. Also let x times the last equal y times the first denomination ; that is,

$$xC = yA$$
$$aA = bB$$
$$cB = dC.$$

Then $xC \times aA \times cB = yA \times bB \times dC$,

or $acx = bdy$.

$$\therefore x = \frac{bdy}{ac} \text{ the number of the last denomination.}$$

and $y = \dfrac{acx}{bd}$ the number of the first denomination.

POWERS AND ROOTS.

The process in arithmetic called *Involution*, or the raising of powers, consists in multiplying a number by itself the required number of times; once for the square or second power, twice for the cube or third power, &c., $3 \times 3 \times 3 = 27$, or as it is expressed, 3^3, the cube of three. The number 3 is termed the root. The numbers which *indicate* how often the root enters as a factor into each of the powers, are called the *indices* of these powers. Thus the index or exponent of the first power is 1, not usually expressed; of the second power, 2; of the third power, 3; of the fourth power, 4, and so on.

TABLE OF POWERS.

$$
\begin{aligned}
2 &= \quad 2 \qquad &&\text{First power} \quad = 2 \\
2 \times 2 &= \quad 4 \qquad &&\text{Second power} = 2^2 \\
4 \times 2 &= \quad 8 \qquad &&\text{Third power} \quad = 2^3 \\
8 \times 2 &= \ 16 \qquad &&\text{Fourth power} = 2^4 \\
16 \times 2 &= \ 32 \qquad &&\text{Fifth power} \quad = 2^5 \\
32 \times 2 &= \ 64 \qquad &&\text{Sixth power} \quad = 2^6 \\
64 \times 2 &= 128 \qquad &&\text{Seventh power} = 2^7 \\
\&c. &\quad \&c. \qquad &&\quad \&c.
\end{aligned}
$$

The reciprocal of a number, is a fraction whose nominator is unity, and whose denominator is the number itself. Thus the reciprocal of 2 is $\frac{1}{2}$; of 3 is $\frac{1}{3}$; of 4 is $\frac{1}{4}$; and so on.

The reciprocals of the numbers which indicate how often the root of a number enters as a factor into that number, are called the indices of the roots. We may therefore represent the roots of powers by the reciprocals of the same, expressed as fractions on the right; as in the following

TABLE OF ROOTS.

$$
\begin{aligned}
4^{\frac{1}{2}} &= 2 \qquad &&\text{Square root of 4, or } \sqrt{4} \\
8^{\frac{1}{3}} &= 2 \qquad &&\text{Cube root of 8, or } \sqrt[3]{8} \\
16^{\frac{1}{4}} &= 2 \qquad &&\text{Fourth root of 16, or } \sqrt[4]{16} \\
32^{\frac{1}{5}} &= 2 \qquad &&\text{Fifth root of 32, or } \sqrt[5]{32} \\
64^{\frac{1}{6}} &= 2 \qquad &&\text{Sixth root of 64, or } \sqrt[6]{64}
\end{aligned}
$$

$$128^{\frac{1}{7}} = 2 \quad \text{Seventh root of 128, or } \sqrt[7]{128}$$
$$256^{\frac{1}{8}} = 2 \quad \text{Eighth root of 256, or } \sqrt[8]{256}$$
$$512^{\frac{1}{9}} = 2 \quad \text{Ninth root of 512, or } \sqrt[9]{512}$$
$$1024^{\frac{1}{10}} = 2 \quad \text{Tenth root of 1024, or } \sqrt[10]{1024}$$

Powers or roots of the same number may be multiplied by the addition of the indices of the factors. Thus, if 16, the fourth power of 2, be multiplied by 8, its third power, the product 128 is its seventh power, $2^7 = 128$. If the indices $\frac{1}{3}$ and $\frac{1}{4}$ be added together, the sum, $\frac{7}{12}$, is the index of the product:

The division of powers or roots of the same number is indicated by the subtraction of the index of the divisor from that of the dividend. If 7, the index of the divisor, be subtracted from 9, the index of the dividend, the remainder, 2, is the index of the quotient:

$$2^9 \div 2^7 = 2^{9-7} = 2^2, \text{ or } 4.$$

Involution, or the raising of powers or roots of the same number, is indicated by the multiplication of the indices of the given powers or roots by those of the required powers.

$$2^{4 \times 2} = 2^8, \text{ or } 256$$

Again, if 2, the sixth root of 64, be cubed, the cube 8 is the square root of 64; that is, if $\frac{1}{6}$, the index of the sixth root, be multiplied by 3, the index of the cube, the product, $\frac{1}{2}$, is the index of the required power of 64.

The *evolution* or extraction of powers or roots of the same number, is indicated by the multiplication of the indices of the given powers or roots by the indices of the required roots; or, what amounts to the same, the division of those indices by the denominators of the indices of the required roots. Thus, to extract the cube root of 572, the ninth power of 2; $2^{\frac{9}{3}} = 2^3$, or the cube root 8. Again, if the square root of 4 be extracted, the square root, 2, is the fourth root of 16. If $\frac{1}{2}$, the index of the given root, be multiplied by $\frac{1}{2}$, the index of the required root of 4, the product, $\frac{1}{4}$, is the required root of 16. If any power or root of a number be divided by itself, the quotient is unity. For if we subtract the index of the divisor from that of the dividend when both are equal, the index of the quotient may be represented by 0; thus $2^{2-2} = 2^0$. Hence

the power of any number whose index is 0, is unity, which may
be denominated the zero power.

LOGARITHMS.

If we take a series of numbers by successively multiplying
the root 2, as 1, 2, 4, &c., they are termed natural numbers,
of which 2 is called the base. The indices of these powers
constitute the logarithms of these natural numbers.

Table of Logarithms on the Base 2.

Natural Numbers.		Logarithms.
1	. . . .	0
2	. . . .	1
4	. . . .	2
8	. . . .	3
16	. . . .	4
32	. . . .	5
64	. . . .	6
128	. . . .	7
256	. . . .	8
512	. . . .	9
1024	. . . .	10
&c.		&c.

On this table the various logarithmic calculations may be
exemplified on a small scale. To multiply two or more num-
bers together, add together the logarithms of the factors, the
sum is the logarithm of the product.

$$128 \times 8 = \log 7 + \log 3 = \log 10 \text{ of the product } 1024.$$

To divide one number by another. From the log of the
divisor subtract the log of the dividend; the remainder is the
log of the quotient.

$$256 \div 64 = \log 8 - \log 6 = \log \text{ of the quotient } 4.$$

To raise a number to any required power. Multiply the log
of the number by the index of the required power; the pro-
duct is the log of that power. Thus, to find the square of 16:

$$\text{Log } 4 \times 2 = \log 8 \text{ of the square } 256.$$

To find any root of a number. Multiply the log of the

number by the index of the required root, or divide by its denominator, the quotient is the log of that root. Thus, to find the cube root of 64. $\frac{1}{4} \times 3 = \frac{3}{4} = \frac{1}{2}$; or divide 6, the log of the number, by 3, the denominator of the index of the cube root, the quotient, 2, is the log of the cube root 4.

The common system of logarithms is constructed on the number 10 as a base, which possesses many advantages, being the root of the decimal scale of notation. The powers of the number ten consist of unity with as many ciphers annexed as are denoted by the indices of the different powers, as in the following

Table of Powers.

$10^0 = 1$ Zero power.
$10^1 = 10$ First power.
$10^2 = 100$ Second power.
$10^3 = 1000$ Third power.
$10^4 = 10,000$ Fourth power.
$10^5 = 100,000$ Fifth power.
$10^6 = 1,000,000$ Sixth power.
$10^7 = 10,000,000$ Seventh power.
$10^8 = 100,000,000$ Eighth power.
$10^9 = 1,000,000,000$ Ninth power.
$10^{10} = 10,000,000,000$ Tenth power.
&c.   &c.   &c.

If we divide unity, the first natural number, by the successive natural numbers in the preceding table, the quotients will be a series of decimal fractions: $\frac{1}{10} = \cdot 1$, $\frac{1}{100} = \cdot 01$, $\frac{1}{1000} = \cdot 001$, &c. The logarithms of these quotients denote the subtraction of the logarithms of the natural numbers from 0, the logarithm of unity. Since it is impossible to subtract 1, 2, 3, &c., from 0, we can indicate every gradation in such a process by annexing the negative sign thus, $-1, -2, -3$.

Hence we obtain a series of logarithms of decimal fractions, which, in contradistinction to the former, may be termed negative logarithms, as in the following

Table.

Natural Numbers.		Logarithms.
$\cdot 1$	. . . .	$- 1$
$\cdot 01$	. . . .	$- 2$
$\cdot 001$	. . . .	$- 3$

B 3

Natural Numbers.		Logarithms.
·0001	. . . .	— 4
·00001	. . . ·.	— 5
·000001	. . . .	— 6
·0000001	. . . .	— 7
·00000001	. . . .	— 8
·000000001	. . . .	— 9
·0000000001	. . . . . .	—10
&c.		&c.

From which it is evident that the logarithms of fractions, that
is, of all numbers less than unity, are essentially negative, and
that these logarithms *increase* numerically with the *decreasing*
value of the fraction compared with unity.

The index of the logarithm of every number of which the
highest place is unity, is 0; the index of the logarithm of
which the highest place is tens, is 1; the index of the log-
arithm of every number of which the highest place is hun-
dreds, is 2; thousands, 3; and so on. Hence generally the
index of the logarithm of every whole number is a number less
by unity than that which denotes its highest place.

The index of the logarithm of every decimal of which the
highest place is tenths, is $\bar{1}$; hundredths, $\bar{2}$; thousandths,
and so on. The index of the logarithm of every decimal, is a
number denoting its highest place, with the negative sign at-
tached to it, or usually written above it. This sign indicates
that when the logarithm of a decimal is added, its index is to
be subtracted, and when the logarithm of a decimal is sub-
tracted, its index is to be added.

Indices of Logarithms for Integers.

Units	0
Tens	1
Hundreds	2
Thousands	3
Tens of thousands	4
Hundreds of thousands	5
Millions	6
Tens of millions	7
Hundreds of millions	8
Thousands of millions	9
Tens of thousands of millions . . .	10
&c.	&c.

Indices of Logarithms for Decimals.

Tenths	$\bar{1}$
Hundredths	$\bar{2}$
Thousandths	$\bar{3}$
Tenths of thousandths	$\bar{4}$
Hundredths of thousandths . . .	$\bar{5}$
Millionths	$\bar{6}$
Tenths of millionths	$\bar{7}$
Hundredths of millionths	$\bar{8}$
Thousandths of millionths . . .	$\bar{9}$
Tenths of thousandths of millionths .	$\overline{10}$
&c.	&c.

As a further illustration, the following table is added, which shows the changes which take place in the index of a logarithm by lowering the value of the number on the decimal scale of notation.

Numbers.	Logarithms.
100100	5·000434
10010	4·000434
1001	3·000434
100·1	2·000434
10·01	1·000434
1·001	0·000434
·1001	$\bar{1}$·000434
·01001	$\bar{2}$·000434
·001001	$\bar{3}$·000434
·0001001	$\bar{4}$·000434
·00001001	$\bar{5}$·000434
&c.	&c.

In adding together logarithms, if the characteristics be both positive, it is the same as ordinary addition; but positive and negative characteristics must be considered to neutralize each other, and the difference only must be written down. Observe that what is carried from the mantissa, if a logarithm, is always positive, as in the following examples :—

2·079181	2·550228	1·758123
$\bar{1}$·549605	$\bar{1}$·450395	$\bar{2}$·241877
3·628786	2·000623	0·000000

In subtracting logarithms, which is equivalent to the division of one of their corresponding numbers by the other, if the indices be both negative or both positive, and the characteristic to be subtracted be the less, the index of the quotient has the sign of the greater; but if the subtracted index be the greater, the contrary sign must be prefixed.

The units carried from the *mantissa*, or decimal part of the logarithm, are always reckoned negative.

4·982271	1·875061	1̄·193820	1·897627
2·885361	2·602060	1̄·795880	0·903090
2·096910	1̄·273001	1̄·397940	0·994537

When the indices are different, the index of the quotient is their sum, with the index of the logarithm subtracted from prefixed.

$$\begin{array}{c} 1·013364 \\ \underline{1̄·439333} \\ 1̄·574031 \end{array}$$

To multiply a logarithm by any number, proceed as in ordinary multiplication; if the characteristic of the logarithm be negative, its product is negative; but if units be carried from the mantissa when multiplied, they are to be considered as positive.

$$\begin{array}{c} 1·397940 \\ \underline{2} \\ 2·795880 \end{array} \qquad \begin{array}{c} 1̄·397940 \\ \underline{3} \\ 2̄·193820 \end{array}$$

A logarithm is divided by any number in the usual manner; but if the index of the logarithm be negative and not exactly measured by the divisor, add as many units to the first as shall make it exactly divisible by the last, but carry the same number of units to the mantissa of the logarithm when divided.

$$2)3·612360 \qquad 3)2̄·193820 \qquad 5)0·084756$$
$$\overline{1·806180} \qquad \overline{1̄·397940} \qquad \overline{0·016951}$$

METHOD OF CALCULATING INTEREST ON CURRENT ACCOUNTS.

The annexed page represents the method of ruling a ledger to contain a banking account on which interest is allowed, say at 2 per cent., by the Bank on the Cr. balances, and charged 5 per cent for sums overdrawn.

From this account it will appear that on the 2nd of January, 1855, the customer lodged in the bank £371 2s. 3d., for which he was therefore creditor till the 5th of January, when he drew out £24, leaving the balance still creditor £347 2s. 3d. He is entitled to three days interest at 2 per cent. on his first lodgment. It is not usual to reckon interest on sums under ten shillings, therefore multiply the pounds by the days, 371 × 3, and place the product under its proper head. Proceed in the same way with the other balances, reckoning sums over ten shillings as one pound. In making up the account, cast up the products on both sides, and compare the sum with the decimal figures under the proper rate per cent. in the Simple Interest Tables, when the exact amount in £ s. d. will instantly be found. If 2 per cent. be the rate, take half the amount at 4 per cent. The balance due to or by the bank will of course be found by taking the difference of the two products.

Date	Particulars	Dr. £ s. d.	Cr. £ s. d.	Dr. or Cr.	Balance £ s. d.	Days	Interest due to the Bank	Interest due by the Bank
1855. Jan. 2	By Cash	. 0	371 2 3	Cr.	371 2 3			1 113
,, 5	To cheque, Smith	24 0 0		Cr.	347 2 3	3		1 041
,, 8	Ditto Brown	16 3 4		Cr.	330 16 8	3		662
,, 10	Ditto Wilson	42 10 0		Cr.	287 6 8	2		574
,, 12	Ditto	350 0 0		Dr.	62 13 4	2	63	
,, 13	By cash		400 0 0	Cr.	337 6 8	1		

CONSIDERATION OF THE VARIOUS SCHEMES FOR
A DECIMAL COINAGE, &c.

Although the question of a decimalized system of money, weights, and measures, has been widely discussed before and since the publication of the Report of the Committee of the House of Commons, there still exists considerable diversity of opinion as to the best method of commencing this important innovation. All parties seem agreed that it is expedient to commence with the coinage, before any change is attempted in the existing weights and measures. The diversity of opinion chiefly affects these important points :—Shall we have a purely decimal coinage, calling in all coins which do not accord with such a scale, or merely a decimal system as regards the money of account, leaving the irregular coins to circulate as before? Which coin shall be taken as the unit or basis of the system, the sovereign, florin, penny, or farthing? Many writers greatly exaggerate the difficulty of making any change whatever in our ancient customs; as if no error could be rectified which repetition has made habitual, and forgetting that the human mind possesses the power of adapting itself to a change of circumstances, especially when accompanied with a reduction of bodily or mental labour. There can however be no doubt that the system to be adopted in the first instance, must be the one which will do the least violence to our accustomed habits of calculation, and be more remarkable for practical simplicity than mathematical precision or scientific refinement.

An article on this subject by Professor De Morgan in the 'Companion to the Almanac' for 1841, proposes that the pound sterling shall be left unchanged as the unit of value. The decision of the Parliamentary Committee is to the same effect, and the first step toward this change has already been accomplished by the issue of the florin, or tenth of a pound. It is to be regretted that the withdrawal of that useless coin the half-crown piece did not accompany this issue; the similarity between the two, occasions much confusion in counting silver.

The next step in this system would be the introduction of the tenth of a florin, or a coin nearly the value of $2\frac{1}{2}d.$, which might be called a *groat*, with its *half*, which would a little exceed in value our present penny. This alteration in the value of the penny, and the consequent confusion in small payments, postages, marketing transactions, tolls, &c., are the principal

objections to this system. It must also be accompanied simultaneously by the recall of the present penny, or the new mode of reckoning would never entirely supersede the old. To quote from the Committee's report, "They have no hesitation in recommending the present pound sterling as the unit of the new system of coinage. The tenth part already exists in the shape of the florin or two-shilling piece; while an alteration of four per cent. in the present farthing will serve to convert that coin into the lowest step of the decimal scale which it is necessary to represent by means of an actual coin, namely the thousandth part of a pound. To this lowest denomination your Committee purpose, in order to mark its relation to the unit of value, to give the name of *mil*. The addition of a coin to be called a cent, of the value of ten mils, and equal to the hundredth part of a pound, or the tenth part of the florin, would serve to complete the list of coins necessary to represent the moneys of account, which would accordingly be pounds, florins, cents, and mils."

"The following," says Professor De Morgan, "are a few of the advantages of a perfectly decimal coinage. All computations would be performed by the same rule as in the arithmetic of whole numbers. An extended multiplication table would be a better interest table than any which has yet been constructed. The application of logarithms would be materially facilitated, and would become universal, as also that of the sliding rule. The number of good commercial computors would soon be many times greater than at present. All decimal tables, as those of compound interest, &c., would be popular tables, instead of being mathematical mysteries. When the decimal coinage came to be completely established, the introduction of a decimal style of weights and measures would be very much facilitated, and its advantages would be seen."

It is also a question whether the purely *decimal* or the *centesimal* system, as used in France and America, may be the best method of keeping accounts. If we adopt the pound, the largeness of the unit seems to require some intermediate coins of account, whereas the Americans reckon simply by dollars and cents, using only two columns for their accounts. A practical advocate of the mathematical system observes:—
"Both Professor De Morgan and Dr. Bowring have thought it essential to the decimal scheme that our money should literally be divided throughout by tens, each tenth represented by named coins of account. We wish to combat this idea, and to

show that the innovation of an entirely new denomination, like the tenth of a florin, is too great a one for the requirement of the case. It is either too small or too large to take the place of any existing coin. . . . Again, who would like a coin of account bearing an almost entirely new relation to the old money, often requiring calculation, and whereby the chain of old associations was nearly broken? Our escape from difficulty would seem to be by excluding such a denomination from our scheme altogether, and to pass by one step from the florin to its hundredth."—*Taylor's Decimal System*, p. 14.

A writer who styles himself "One of the Million," has recently proposed a system which, from its apparent simplicity and practicability, has attracted considerable attention. He recommends that our accounts should hereafter be kept in pence and tenpences, or *Albions*, and that the value of the penny should remain unaltered. " All the coins at present in circulation may remain in circulation, though no longer moneys of account. Only two new coins will be required, namely, the tenpence, which may be called an albion or alb, and its half, or fivepence. The present quaternal divisions of the penny should be retained in all ready-money transactions, and when it is requisite they should be noticed, which is very rarely the case, in commercial accounts; but when they are required for more particular calculations, as for interest or exchanges, they may readily be marked by the common decimal fractions, as ·5, ·25, ·75, or more minutely as required. It may be objected that the retention of the quaternal divisions of the penny precludes its being a perfectly decimal system; but it is, so far as can be required for all the purposes of common life, and much more so than the systems in use on the Continent, which are almost all centesimal, and not decimal.

" The chief objection to this plan is, that it does not retain the pound either as the unit or as a decimal part of the system. It is perhaps to be regretted that the pound cannot be integrally retained if the penny is kept at its present value, as the penny forms no decimal part of the pound. But I unhesitatingly maintain, that the retention of the penny, which is *the poor man's unit of value, and in reality regulates the mass of monetary transactions, is of far greater importance than the retention of the pound, which is of value chiefly as the ancient denomination of account.*"—See *Decimal Coinage, by One of the Million.*

We think this writer somewhat exaggerates the use of the

penny and the difficulties of the poor in case its value were altered. With the aid of a coin so small as the mil, or thousandth of a pound, the poor, considering their accustomed habits of purchasing small quantities, would easily adjust the new coin to their acquired notions of value. On the other hand, the banker, the merchant's clerk, the commercial agent, &c., who deal in large amounts and have much business to get through in a limited time, might prove formidable opponents to any system which should compel them to abandon the pound, or to write out accounts in one denomination and receive payment in another. There would be great liability to error, in the hurry of business, if a sum written down in albs and pence were paid with a mixture of bank-notes, sovereigns, albs, and shillings, even with the help of a pocket table which should convert, at a glance, old currency into new. Though a decimal system of keeping accounts is the principal desideratum, it must be accompanied with a coinage that shall make the written account and the money paid at the counter in some degree correspond. We think, notwithstanding this writer's arguments, that it is more desirable to retain the pound than the penny as the unit of calculation, being a much more convenient measure for large sums than the alb, and to throw the risk of errors on its fractional parts, especially since the Committee of the House of Commons has already decided in its favour. The labouring classes are by no means bad calculators in their own transactions. It will be found that nearly all the prodigies of mental calculation have been illiterate persons, and that every attempt to multiply their ideas by literary or scientific culture, has been found grievously to impair the intuitive faculty of multiplying figures.

We may here allude to another system entitled "Practical Suggestions for facilitating the adoption of a Decimal Currency," by B. Rozzell. This writer proposes the pound or soverin as the integer, and to alter the value of the farthing to the thousandth of a soverin, according to the following table.

10 Re (singular and plural) make .	1 Rin.
10 Rins	1 Florin.
10 Florins	1 Soverin.

He proposes the following as the most convenient and appropriate coins ; the column on the right showing the present coins which are now, or are to be made, of equivalent value.

The re . . . .   the farthing.
The two-re piece . . . . .   the halfpenny.
The five-re, or half rin.
The rin.
The two-rin piece.
The five-rin, or half florin . . the shilling.
The florin . . . .   the florin.
The five-florin, or half-soverin. the half-sovereign.
The soverin . . . .   the sovereign.

The simplest mode of keeping accounts in this new currency would be by a single line in the place of the decimal point, to separate the soverin from its fractions, though four columns might be used, the better to facilitate the comprehension of the system.

Present System.			In Re.		In columns.			
£	s.	d.	£		£	f.	R.	r.
4	0	0	4	000	4			
4	10	0	4	500	4	5		
42	19	6	42	975	42	9	7	5
23	14	0	23	700	23	7		
75	3	6	75	175	75	1	7	5

£75 3s. 6d.   £75, 175 re.   £75, 1 florin, 7 rin, 5 re.

In a paper read before the Society of Arts, by J. A. Franklin, some serious objections were offered against retaining the penny as a unit in the monetary system. He showed that, contrary to the assertions of the advocates of the penny standard, the *tenpence* was totally useless for all purposes of exchange, exhibiting (as the tables clearly exemplified) marked discrepancies with those foreign coins erroneously supposed to be its equivalents. Mr. Franklin proceeded to show from the experience of foreign states, that the slight adjustment which the penny advocates admitted to be necessary to their scheme, would involve greater difficulties and be productive of fewer advantages than the readjustment of the penny to the sovereign, and that the uniformity of coin would not be followed by any of the expected facilities in the operation of exchanges. When it is considered that in England we keep accounts in

pounds, shillings, pence, and farthings, while most other countries have only two coins in which their sums are legally stated, it seems desirable that our system should harmonize with those which in other countries have undergone the test of experience.   Thus in France, Belgium, and Switzerland there are francs and cents.

In Holland, florins and cents.
In Russia, roubles and kopecks.
In Portugal, milreis and reis.
In Rome, scudi and bajocchi.
In Naples, ducati and grani.
In Florence, Milan, and Venice, lire and centesimi.
In Greece, drachme and septe.
In the United States, dollars and cents.

This view was supported by Hugo Reid, in a paper read on the same occasion as the preceding. Simplicity, brevity of expression, and facility of computation, were attained by having only two coins of account in the proportion to each other of 1 to 100. The change of the leading coin or unit would thus be of only one denomination and would never exceed two figures, with which calculation is comparatively easy. To avoid fractions occurring frequently, the lower coin should not be above the value of the present farthing. Taking the florin as the unit and dividing it into one hundred cents, which would be nearly of the value of the present farthing, would harmonize with the pound and shilling, as the florin is the tenth of a pound and equal to two shillings.

The facility with which florins may be converted into pounds, at a glance, by merely cutting off the last figure (dividing by ten), is a great convenience in using this unit of account. The sovereign might still remain in circulation, and the discrepancy between the old currency and the new would occasion no difficulty in the estimation of large amounts. Some propose to commence the decimal system simply by the addition of a cent piece to the coins already in circulation; leaving the shillings, sixpences, pence, and halfpence precisely as they are, and gradually to introduce the ten-cent and five-cent pieces as people become accustomed to the new system. But if this were done, and at the same time florins and cents made the only legal method of keeping accounts, we should be annoyed by the objection before alluded to, of having accounts written out in florins and cents, to be liquidated by coins which are no multiple of the cent. The consequence would be, that the cent

would be laid aside, and the more familiar penny, halfpenny, and farthing used instead. It is desirable that the issue of the cent and its compounds should be accompanied by the rapid withdrawal of all similar coins, leaving to each trader the task of readjusting the prices of his goods to the new currency.

Probably a paper issue of the new denomination might be the most effectual means of bringing it rapidly into circulation. This would shorten the transition period, and the notes might gradually be taken up as the metallic basis could be supplied. Since the decimal system is mainly required for the purpose of facilitating all business calculations, there is no absolute necessity to dispense all at once with our old convenient custom of halving and quartering, therefore a four-cent and two-cent piece might take the place of the present penny and halfpenny. In short, it is of little consequence what coins may be in circulation, provided our accounts are kept in florins and cents only, and every coin be some multiple of the cent.

APPENDIX.

Logarithms corresponding with the Decimals of every Day in the Year.

Days.	Log.	Days.	Log.	Days.	Log.	Days.	Log.
1	3̄·4377077	51	1̄·1452673	101	1̄·4420284	151	1̄·6166840
2	3̄·7387370	52	1̄·1537103	102	1̄·4463072	152	1̄·6195506
3	3̄·9148285	53	1̄·1619828	103	1̄·4505441	153	1̄·6223985
4	2̄·0397676	54	1̄·1701008	104	1̄·4547404	154	1̄·6252278
5	2̄·1366771	55	1̄·1780698	105	1̄·4588964	155	1̄·6280388
6	2̄·2158570	56	1̄·1858950	106	1̄·4630129	156	1̄·6308317
7	2̄·2825051	57	1̄·1935817	107	1̄·4670908	157	1̄·6336066
8	2̄·3407971	58	1̄·2011451	108	1̄·4711308	158	1̄·6363642
9	2̄·3919496	59	1̄·2085590	109	1̄·4751335	159	1̄·6391042
10	2̄·4377071	60	1̄·2158582	110	1̄·4799998	160	1̄·6418270
11	2̄·4780988	61	1̄·2230368	111	1̄·4830248	161	1̄·6445328
12	2̄·5168884	62	1̄·2300981	112	1̄·4869253	162	1̄·6472322
13	2̄·5516504	63	1̄·2370475	113	1̄·4907876	163	1̄·6498941
14	2̄·5838402	64	1̄·2438868	114	1̄·4946118	164	1̄·6525509
15	2̄·6137980	65	1̄·2506203	115	1̄·4984049	165	1̄·6551909
16	2̄·6418262	66	1̄·2572510	116	1̄·5021651	166	1̄·6578151
17	2̄·6681560	67	1̄·2637818	117	1̄·5058929	167	1̄·6604140
18	2̄·6929796	68	1̄·2702159	118	1̄·5095893	168	1̄·6630163
19	2̄·7164607	69	1̄·2765563	119	1̄·5132540	169	1̄·6655938
20	2̄·7384232	70	1̄·2828051	120	1̄·5168884	170	1̄·6681560
21	2̄·7599264	71	1̄·2889654	121	1̄·5204924	171	1̄·6707040
22	2̄·7801298	72	1̄·2950394	122	1̄·5240663	172	1̄·6732354
23	2̄·7994350	73	1̄·3010300	123	1̄·5276120	173	1̄·6757532
24	2̄·8179183	74	1̄·3069388	124	1̄·5311288	174	1̄·6782563
25	2̄·8356471	75	1̄·3127682	125	1̄·5346172	175	1̄·6807451
26	2̄·8526804	76	1̄·3185205	126	1̄·5380776	176	1̄·6832224
27	2̄·8690709	77	1̄·3241978	127	1̄·5415108	177	1̄·6856804
28	2̄·8848651	78	1̄·3298016	128	1̄·5449172	178	1̄·6881270
29	2̄·9001050	79	1̄·3353341	129	1̄·5482967	179	1̄·6905600
30	2̄·9148284	80	1̄·3407969	130	1̄·5516503	180	1̄·6929795
31	2̄·9290680	81	1̄·3461920	131	1̄·5549784	181	1̄·6953857
32	2̄·9428571	82	1̄·3515207	132	1̄·5582810	182	1̄·6977785
33	2̄·9562210	83	1̄·3567851	133	1̄·5615587	183	1̄·7001583
34	2̄·9691866	84	1̄·3619861	134	1̄·5648117	184	1̄·7025248
35	2̄·9817751	85	1̄·3671260	135	1̄·5680405	185	1̄·7048788
36	2̄·9940095	86	1̄·3722054	136	1̄·5712466	186	1̄·7072201
37	3̄·0059008	87	1̄·3772262	137	1̄·5744275	187	1̄·7095487
38	3̄·0174902	88	1̄·3821896	138	1̄·5775862	188	1̄·7105460
39	3̄·0287717	89	1̄·3870970	139	1̄·5807217	189	1̄·7141688
40	3̄·0397672	90	1̄·3919495	140	1̄·5838350	190	1̄·7164606
41	3̄·0505408	91	1̄·3967484	141	1̄·5869261	191	1̄·7187404
42	3̄·0609561	92	1̄·4014941	142	1̄·5899955	192	1̄·7210084
43	3̄·0711755	93	1̄·4061900	143	1̄·5920431	193	1̄·7232643
44	3̄·0811565	94	1̄·4108348	144	1̄·5960695	194	1̄·7255088
45	3̄·0909194	95	1̄·4154305	145	1̄·5990750	195	1̄·7277417
46	3̄·1004450	96	1̄·4199784	146	1̄·6020600	196	1̄·7299632
47	3̄·1098050	97	1̄·4244788	147	1̄·6050243	197	1̄·7321733
48	3̄·1189483	98	1̄·4289330	148	1̄·6079687	198	1̄·7343722
49	3̄·1279030	99	1̄·4333422	149	1̄·6108932	199	1̄·7365601
50	3̄·1366772	100	1̄·4377071	150	1̄·6137984	200	1̄·7387371

Logarithms corresponding with the Decimals of every Day in the Year.

Days.	Log.	Days.	Log.	Days.	Log.	Days.	Log.
201	1̄·7409032	251	1̄·8373807	301	1̄·9162736	351	1̄·9830142
202	1̄·7430584	252	1̄·8391076	302	1̄·9177140	352	1̄·9842498
203	1̄·7452031	253	1̄·8408275	303	1̄·9191496	353	1̄·9854818
204	1̄·7473660	254	1̄·8425408	304	1̄·9205811	354	1̄·9867104
205	1̄·7494609	255	1̄·8442472	305	1̄·9220069	355	1̄·9879355
206	1̄·7515742	256	1̄·8459471	306	1̄·9234286	356	1̄·9891570
207	1̄·7536774	257	1̄·8476402	307	1̄·9248455	357	1̄·9903753
208	1̄·7557705	258	1̄·8493267	308	1̄·9262579	358	1̄·9915901
209	1̄·7578533	259	1̄·8510069	309	1̄·9276656	359	1̄·9928016
210	1̄·7599264	260	1̄·8526808	310	1̄·9290688	360	1̄·9940095
211	1̄·7619894	261	1̄·8543476	311	1̄·9304674	361	1̄·9952143
212	1̄·7640430	262	1̄·8560085	312	1̄·9318616	362	1̄·9964154
213	1̄·7660866	263	1̄·8576628	313	1̄·9332514	363	1̄·9976137
214	1̄·7681208	264	1̄·8593100	314	1̄·9346367	364	1̄·9988084
215	1̄·7701455	265	1̄·8609530	315	1̄·9360176	365	0·0000000
216	1̄·7721608	266	1̄·8625887	316	1̄·9373942	**Year.**	
217	1̄·7741668	267	1̄·8642183	317	1̄·9387665	1/16	2̄·7958800
218	1̄·7761635	268	1̄·8658418	318	1̄·9401341	1/12	2̄·9208187
219	1̄·7781513	269	1̄·8674593	319	1̄·9414978	1/10	1̄·0000000
220	1̄·7801298	270	1̄·8690709	320	1̄·9428571	1/8	1̄·0969100
221	1̄·7820996	271	1̄·8706765	321	1̄·9442122	1/6	1̄·2218487
222	1̄·7840600	272	1̄·8723048	322	1̄·9455629	3/16	1̄·2730013
223	1̄·7860120	273	1̄·8738698	323	1̄·9469096	1/5	1̄·3010300
224	1̄·7879551	274	1̄·8754576	324	1̄·9482521	1/4	1̄·3979400
225	1̄·7898896	275	1̄·8770403	325	1̄·9495904	3/10	1̄·4771213
226	1̄·7918155	276	1̄·8786161	326	1̄·9509246	5/16	1̄·4948500
227	1̄·7937329	277	1̄·8801869	327	1̄·9522549	1/3	1̄·5228787
228	1̄·7956420	278	1̄·8817518	328	1̄·9535809	3/8	1̄·5740313
229	1̄·7975425	279	1̄·8833112	329	1̄·9549029	2/5	1̄·6020600
230	1̄·7994342	280	1̄·8848651	330	1̄·9562210	5/12	1̄·6197888
231	1̄·8013190	281	1̄·8864135	331	1̄·9575351	7/16	1̄·6409781
232	1̄·8031950	282	1̄·8879561	332	1̄·9588452	1/2	1̄·6989700
233	1̄·8050639	283	1̄·8894935	333	1̄·9601514	9/16	1̄·7501225
234	1̄·8069220	284	1̄·8910254	334	1̄·9614535	7/12	1̄·7659167
235	1̄·8087750	285	1̄·8925520	335	1̄·9627519	3/5	1̄·7781513
236	1̄·8106192	286	1̄·8940732	336	1̄·9640464	5/8	1̄·7958800
237	1̄·8124555	287	1̄·8955890	337	1̄·9653369	2/3	1̄·8239087
238	1̄·8142840	288	1̄·8970996	338	1̄·9666238	11/16	1̄·8372727
239	1̄·8161048	289	1̄·8986050	339	1̄·9679068	7/10	1̄·8450980
240	1̄·8179183	290	1̄·9001050	340	1̄·9691860	3/4	1̄·8750613
241	1̄·8197241	291	1̄·9016001	341	1̄·9704616	4/5	1̄·9030900
242	1̄·8215225	292	1̄·9030900	342	1̄·9717332	13/16	1̄·9098234
243	1̄·8233135	293	1̄·9045747	343	1̄·9730013	5/6	1̄·9208187
244	1̄·8250969	294	1̄·9060545	344	1̄·9742655	7/8	1̄·9420081
245	1̄·8268732	295	1̄·9075291	345	1̄·9755261	9/10	1̄·9542425
246	1̄·8286422	296	1̄·9089988	346	1̄·9767832	11/12	1̄·9622113
247	1̄·8304040	297	1̄·9104637	347	1̄·9780366	15/16	1̄·9719713
248	1̄·8321588	298	1̄·9119233	348	1̄·9792864		
249	1̄·8339063	299	1̄·9133782	349	1̄·9805325		
250	1̄·8356471	300	1̄·9148284	350	1̄·9817751		

Logarithms of the amount of £1 at Compound Interest, in any number of years not exceeding fifty.

Years.	3 per Cent.	4 per Cent.	5 per Cent.
1	0·0128372	0·0170333	0·0211893
2	0·0256744	0·0340667	0·0423786
3	0·0385116	0·0511000	0·0635678
4	0·0513536	0·0681331	0·0847571
5	0·0641863	0·0851711	0·1059463
6	0·0770233	0·1022000	0·1271357
7	0·0898604	0·1192331	0·1483250
8	0·1026978	0·1362656	0·1695143
9	0·1155350	0·1532998	0·1907036
10	0·1283721	0·1703332	0·2118928
11	0·1412096	0·1873667	0·2330821
12	0·1540466	0·2043999	0·2542715
13	0·1668840	0·2216158	0·2754619
14	0·1791207	0·2384656	0·2966531
15	0·1925582	0·2555000	0·3178394
16	0·2053955	0·2725334	0·3390266
17	0·2182326	0·2895667	0·3602180
18	0·2300700	0·3066000	0·3814073
19	0·2439063	0·3236334	0·4025967
20	0·2567444	0·3406667	0·4237859
21	0·2695815	0·3577001	0·4449752
22	0·2824250	0·3747333	0·4661645
23	0·2952661	0·3917667	0·4873537
24	0·3070928	0·4088000	0·5085431
25	0·3209304	0·4258335	0·5297323
26	0·3337679	0·4428667	0·5509217
27	0·3466040	0·4598000	0·5721110
28	0·3594421	0·4769334	0·5933003
29	0·3722794	0·4939661	0·6144876
30	0·3851167	0·5109900	0·6356789
31	0·3979538	0·5280333	0·6668683
32	0·4107910	0·5450668	0·6780574
33	0·4236283	0·5621001	0·6992469
34	0·4364656	0·5791335	0·7204361
35	0·4493027	0·5961667	0·7416255
36	0·4621401	0·6132001	0·7628148
37	0·4749771	0·6302331	0·7840039
38	0·4878144	0·6472669	0·8051934
39	0·5006516	0·6643000	0·8263827
40	0·5134889	0·6813345	0·8475720
41	0·5263260	0·6983668	0·8687611
42	0·5391633	0·7154001	0·8899516
43	0·5520003	0·7324335	0·9111398
44	0·5648378	0·7494669	0·9323292
45	0·5776750	0·7665004	0·9535184
46	0·5905122	0·7835335	0·9747077
47	0·6033496	0·8005669	0·9958970
48	0·6161864	0·8176002	1·0170859
49	0·6290239	0·8346335	1·0382756
50	0·6418611	0·8516669	1·0594873

Logarithms of the present value of £1 due at the end of any number
of years not exceeding fifty.

Years.	3 per Cent.	4 per Cent.	5 per Cent.
1	1̄·9871628	1̄·9829667	1̄·9288107
2	1̄·9743256	1̄·9659333	1̄·9576214
3	1̄·9614884	1̄·9489000	1̄·9364321
4	1̄·9486512	1̄·9318666	1̄·2152428
5	1̄·9358139	1̄·9148333	1̄·8940535
6	1̄·9229767	1̄·8978000	1̄·8728642
7	1̄·9101395	1̄·8807666	1̄·8516749
8	1̄·8973023	1̄·8637333	1̄·8304856
9	1̄·8844650	1̄·8467000	1̄·8092963
10	1̄·8716278	1̄·8296667	1̄·7881070
11	1̄·8587906	1̄·8126333	1̄·7669177
12	1̄·8459534	1̄·7956000	1̄·7457284
13	1̄·8331161	1̄·7785667	1̄·7245391
14	1̄·8202789	1̄·7615333	1̄·7033498
15	1̄·8074417	1̄·7445000	1̄·6821605
16	1̄·7946045	1̄·7274667	1̄·6609712
17	1̄·7817672	1̄·7104333	1̄·6397819
18	1̄·7689300	1̄·6934000	1̄·6185926
19	1̄·7560928	1̄·6763667	1̄·5974033
20	1̄·7432556	1̄·6593333	1̄·5762140
21	1̄·7304183	1̄·6422999	1̄·5550247
22	1̄·7175811	1̄·6252666	1̄·5338354
23	1̄·7047439	1̄·6082332	1̄·5126461
24	1̄·6919067	1̄·5911999	1̄·4914568
25	1̄·6790694	1̄·5741666	1̄·4702675
26	1̄·6662322	1̄·5571333	1̄·4490782
27	1̄·6533950	1̄·5401000	1̄·4278889
28	1̄·6405578	1̄·5230667	1̄·4066996
29	1̄·6277205	1̄·5060333	1̄·3855103
30	1̄·6148833	1̄·4890000	1̄·3643210
31	1̄·6020461	1̄·4719667	1̄·3431317
32	1̄·5892089	1̄·4549333	1̄·3219424
33	1̄·5763716	1̄·4379000	1̄·3007531
34	1̄·5635344	1̄·4208667	1̄·2795638
35	1̄·5506172	1̄·4038333	1̄·2583745
36	1̄·5378600	1̄·3868000	1̄·2371852
37	1̄·5250227	1̄·3697667	1̄·2159959
38	1̄·5121855	1̄·3527333	1̄·1948066
39	1̄·4993483	1̄·3357000	1̄·1736173
40	1̄·4865111	1̄·3186667	1̄·1524280
41	1̄·4736738	1̄·3016333	1̄·1312387
42	1̄·4608366	1̄·2846000	1̄·1100495
43	1̄·4479994	1̄·2675667	1̄·0888602
44	1̄·4351622	1̄·2505333	1̄·0676709
45	1̄·4223249	1̄·2335000	1̄·0464816
46	1̄·4094877	1̄·2164667	1̄·0252923
47	1̄·3966505	1̄·1994333	1̄·0041030
48	1̄·3838133	1̄·1824000	2̄·9829137
49	1̄·3709760	1̄·1653667	2̄·9617244
50	1̄·3581388	1̄·1483333	2̄·9405352

Logarithms of the amount of £1 per Annum in any number of years
not exceeding fifty.

Years.	3 per Cent.	4 per Cent.	5 per Cent.
1	0·0000000	0·0000000	0·0000000
2	0·3074960	0·3096302	0·3117539
3	0·4890850	0·4943773	0·4986551
4	0·6215530	0·6270275	0·6344888
5	0·7250238	0·7337045	0·7423818
6	0·8108036	0·8217083	0·8326309
7	0·8843683	0·8975333	0·9107315
8	0·9480158	0·9214224	0·9799624
9	1·0072780	1·0246002	1·0424401
10	1·0593282	1·0794019	1·0996080
11	1·1074742	1·1298945	1·1524957
12	1·1510527	1·1768376	1·2018645
13	1·1936195	1·2208095	1·2482916
14	1·2326485	1·2622591	1·2922257
15	1·2694874	1·3015417	1·3340225
16	1·3044233	1·3389449	1·3739674
17	1·3376904	1·3747028	1·4112985
18	1·3694836	1·4090096	1·4492064
19	1·3999664	1·4420283	1·4848548
20	1·4292737	1·4738965	1·5193809
21	1·4575259	1·5047318	1·5529023
22	1·4848232	1·5346347	1·5855195
23	1·5112536	1·5636931	1·6173198
24	1·5368925	1·5919835	1·6483784
25	1·5618079	1·6195723	1·6787649
26	1·5860593	1·6465189	1·7085352
27	1·6096971	1·6728752	1·7377420
28	1·6327702	1·6986884	1·7664319
29	1·6553195	1·7239994	1·7946463
30	1·6773826	1·7488461	1·8224220
31	1·6989933	1·7732621	1·8497931
32	1·7201820	1·7972777	1·8767881
33	1·7409769	1·8209204	1·9034360
34	1·7614029	1·8442195	1·9297608
35	1·7814830	1·8671858	1·9557853
36	1·8012387	1·8898523	1·9815301
37	1·8206888	1·9122341	2·0070039
38	1·8398515	1·9343485	2·0322524
39	1·8587431	1·9562134	2·0572669
40	1·8773786	1·9778402	2·0820658
41	1·8957721	1·9992460	2·1066668
42	1·9139366	2·0204578	2·1310764
43	1·9318843	2·0414412	2·1553158
44	1·9496262	2·0622539	2·1793880
45	1·9671720	2·0828906	2·2033051
46	1·9845318	2·1033606	2·2270767
47	2·0017186	2·1236731	2·2507013
48	2·0187350	2·1438364	2·2742162
49	2·0355922	2·1638560	2·2975998
50	2·0512967	2·1837453	2·3208686

Logarithms of the present value of £1 per Annum for any number of
years not exceeding fifty.

Years.	3 per Cent.	4 per Cent.	5 per Cent.
1	$\overline{1}$·9871629	$\overline{1}$·9829664	$\overline{1}$·9788140
2	0·2818217	0·2766635	0·2693751
3	0·4515731	0·4432771	0·4370871
4	0·5702040	0·5598940	0·5497327
5	0·6608376	0·6485376	0·6364354
6	0·7337742	0·7195083	0·7054952
7	0·7945078	0·7782999	0·7624064
8	0·8463181	0·8281922	0·8104485
9	0·8913205	0·8713003	0·8517365
10	0·9309503	0·9090689	0·8877148
11	0·9662649	0·9425277	0·9194135
12	0·9979976	0·9724376	0·9475931
13	1·0267357	0·9993762	0·9728307
14	1·0495902	1·0237912	0·9955756
15	1·0769292	1·0460415	1·0161823
16	1·0990277	1·0630438	1·0349401
17	1·1194578	1·0851356	1·0520803
18	1·1384015	1·1024093	1·0677990
19	1·1560581	1·1183949	1·0822582
20	1·1725282	1·1332297	1·0955950
21	1·1879440	1·1470316	1·1079269
22	1·2024043	1·1599024	1·1193549
23	1·2159970	1·1719265	1·1299660
24	1·2287991	1·1821833	1·1398362
25	1·2408771	1·1937388	1·1490325
26	1·2522906	1·2036517	1·1576133
27	1·2630921	1·2129741	1·1656309
28	1·2733277	1·2217547	1·1731314
29	1·2830328	1·2300326	1·1801566
30	1·2922658	1·2378459	1·1867432
31	1·3010330	1·2452286	1·1929243
32	1·3093907	1·2522109	1·1987305
33	1·3173484	1·2588201	1·2041889
34	1·3249371	1·2650819	1·2093347
35	1·3321862	1·2710189	1·2141598
36	1·3390985	1·2766520	1·2187153
37	1·3457113	1·2820003	1·2230096
38	1·3520369	1·2860816	1·2270607
39	1·3570911	1·2929120	1·2308840
40	1·3638896	1·2965066	1·2344940
41	1·3694459	1·3008790	1·2379045
42	1·3747731	1·3050321	1·2411279
43	1·3798863	1·3090978	1·2441759
44	1·3847882	1·3127873	1·2470588
45	1·3894975	1·3163906	1·2497869
46	1·3940214	1·3198272	1·2523689
47	1·3983688	1·3230961	1·2543140
48	1·4025485	1·3262361	1·2571300
49	1·4065682	1·3292244	1·2593342
50	1·4103357	1·3320783	1·2614036

Decimals of the Foot.		Decimals of the Yard.			
Inches.	Decimals.	Inches.	Decimals.	Inches.	Decimals.
1	·0833	1	·0277	19	·5277
2	·1666	2	·0555	20	·5555
3	·25	3	·0833	21	·5833
4	·3333	4	·1111	22	·6111
5	·4166	5	·1388	23	·6388
6	·5	6	·1666	24	·6666
7	·5833	7	·195	25	·6944
8	·6666	8	·2222	26	·7222
9	·7333	9	·25	27	·75
10	·8333	10	·2777	28	·7777
11	·9166	11	·3055	29	·8055
12	1·0000	12	·3333	30	·8333
		13	·3611	31	·8611
		14	·3888	32	·8888
		15	·4166	33	·9166
		16	·4444	34	·9444
		17	·4722	35	·9722
		18	·5	36	1·0000

In mensuration a duodecimal scale is usually employed. An inch is supposed to be divided into twelve equal parts, called *seconds*; a second into twelve equal parts, called *thirds*, and so on. It is therefore obvious that the above table will be equally serviceable in giving the decimals of the *second*, *third*, *fourth*, or whatever subdivision of the inch may be taken as the unit.

Such a quantity as 12 ft. 10 in. 11″ 8‴ between 10 in. and 11 in., may be reduced to the decimal of a foot 12·9144.

MISCELLANEOUS CALCULATIONS.

If 4 cwt. 2 qrs. 11 lbs. of tobacco cost £25 17s. 6¼d., how much ought to be paid for 2 cwt. 1 qr.?

By the usual method.

```
Cwt. qr. lb.     Cwt. qr.
 4   2  11  :    2   1   : :   £25  17s.  6¼d.
 4               4                    20
 ─               ─                    ──
18               9                   517
28              28                    12
───             ───                  ───
145             252                  6210
370                                     4
───                                  ─────
515                                 24841
                                      252
                                    ─────
                                    49682
                                  1242050
                                  4968200

             515 ) 6259932 ( 12155 f  ÷  4
                   515
                   ───          12 ) 3038
                  1109
                  1030        20 ) 25,3 . 2
                  ────
                   799          £12 13s. 2¾d.  107⁄111
                   515
                  ────
                  2843
                  2575
                  ────
                  2682
                  2575
                  ────
                   107
                   ───
                   111
```

By Decimals and Logarithms.

$$\left.\begin{array}{c} x \\ \text{Cwt.} \\ 4\cdot5982 \end{array}\right\} = \left\{\begin{array}{l} \text{Cwt.} \\ 2\cdot25 \\ \pounds25\cdot876. \end{array}\right.$$

$$2\cdot25 = \log 0\cdot3521825$$
$$17\cdot876 = \log 1\cdot4128971$$

$$\overline{\hphantom{17\cdot876 = \log }1\cdot7650796}$$
Deduct $4\cdot5982 = \log 0\cdot6625879$

$$\overline{\hphantom{Deduct }\log 1\cdot1024917} = 12\cdot6616, \text{ or}$$
$$\pounds12 \;\; 13s. \;\; 2\tfrac{3}{4}d.$$

How much sugar may be bought for £45 12s. 3d., when the cost of 6 cwt. 1 qr. 12 lbs. is £19 5s. 6d.?

$$\left.\begin{array}{c} x \\ \pounds19\cdot275 \end{array}\right\} = \left\{\begin{array}{l} 45\cdot6125 \\ 6\cdot35714 \end{array}\right.$$

$$\pounds45\cdot6125 = \log 1\cdot6590839$$
$$6\cdot35714 = \log 0\cdot8032617$$

$$\overline{\hphantom{6\cdot35714 = \log }2\cdot4623456}$$
$$19\cdot275 = \log 1\cdot2849944$$

$$\overline{\hphantom{19\cdot275 = \log }1\cdot1773512} = 15\cdot0435, \text{ or } 15 \text{ cwt. } 5 \text{ lb.}$$

If the carriage of 54 cwt. 2 qrs. 7 lb. for 46 miles be £1 15s., what distance may 23 cwt. 1 qr. 15 lbs. be carried for £2 5s. 6d.?

$$\left.\begin{array}{c} x \\ 23\cdot3839 \text{ cwt.} \\ \pounds1\cdot75 \end{array}\right\} = \left\{\begin{array}{l} \pounds2\cdot275 \\ 54\cdot562 \text{ cwt.} \\ 46 \text{ miles.} \end{array}\right.$$

Log $1\cdot3689169$	Log $0\cdot3569814$
$0\cdot2430380$	,, $1\cdot7368903$
	,, $1\cdot6627578$
$\overline{1\cdot6119549}$	
	$\overline{3\cdot7566295}$
	$1\cdot6119547$
	$\overline{2\cdot1446748}$
	or $139\cdot533$ miles.

A vessel has provision for sixteen days; but being obliged to continue at sea for twenty days, to what quantity must the daily ration of twenty pounds be reduced to make the provision last during that time?

$$20 \text{ days} \left.\begin{array}{c} x \\ \\ 1 \end{array}\right\} = \left\{\begin{array}{c} 20 \text{ lb.} \\ 1 \\ 16 \end{array}\right.$$

Which may be argued thus: What will be the reduction on 20 lbs. if 20 days require a provision, instead of a provision for 16 days? Cancelling 20 from each side of the equation, the answer remains 16 pounds.

If a person can perform a journey in six days, riding eight hours each day, how long will it take him to perform the same journey if he ride twelve hours a day?

$$8 \text{ hours} \left.\begin{array}{c} x \\ \\ \end{array}\right\} = \left\{\begin{array}{c} 12 \text{ hours} \\ 6 \text{ days.} \end{array}\right.$$

The more hours, the fewer days; transpose 8 and 12.

$$12 \left.\begin{array}{c} x \\ \\ \end{array}\right\} = \left\{\begin{array}{c} 8 \\ 6 \end{array}\right. = 4 \text{ days.}$$

If 4 tons 6 cwt. of iron rails cost £39 17s. 5¼d., how much must be paid for 1723 tons 1 qr. at the same rate?

Reduce the tons to cwts. and decimals.

$$86 \text{ cwt.} \left.\begin{array}{c} x \\ \\ \end{array}\right\} = \left\{\begin{array}{c} 34460 \cdot 25 \text{ cwt.} \\ £39 \cdot 8719 \end{array}\right.$$

Log 1·9344985.

$$\begin{array}{r} \text{Log } 4 \cdot 5373184 \\ 1 \cdot 6006669 \\ \hline 6 \cdot 1379853 \\ \text{Deduct log } 1 \cdot 9344985 \\ \hline 4 \cdot 2034868 = 15976 \cdot 68, \end{array}$$

i.e. £15976 13s. 8¼d.

If a cistern of 230 gallons can be emptied by a pipe which discharges 5 gallons in a minute, in the same time that another

cistern can be emptied by a pipe that discharges 6 gallons in
a minute, how many gallons does this last cistern contain?

Statement.

What quantity is discharged by the 6-gallon pipe, if the
5-gallon pipe discharge 230 gallons?

$$\begin{array}{c} x \\ 5 \end{array} = \left\{ \begin{array}{c} 6 \\ 230 \text{ galls.} \end{array} \right\} = 276 \text{ gallons.}$$

What is the rent of 35 ac. 3 ro. 20 po. of land at £3 14s. 3d.
per acre?

By the usual rule called 'Practice.'

£3 14s. 3d.
7

25 19 9
5

		129 18 9	= rent of 35 ac. 0 ro. 0 po.
2 ro. = ⅒ of 1 acre		1 17 1½	= . . . 0 2 0
1 ro. = ½ of 2 ro.		0 18 6¾	= . . . 0 1 0
20 po. = ⅒ of 1 ro.		0 9 3¼ ½ =	. . . 0 0 20

133 3   8¼ ½   35 3 20

By Decimals and an Equation.

3 ro. 20 po. = 140, *i.e.* $\frac{140}{160}$ or $\frac{14}{16}$ of an acre.

$\frac{14}{16}$ reduced to a decimal = ·875.

Statement.

What rent of 35·875 acres, if 1 acre produce £3·7125?

$$\begin{array}{c} x \\ 1 \end{array} = \left\{ \begin{array}{c} 35 \cdot 875 \text{ acres} \\ £3 \cdot 7125 \end{array} \right.$$

Log 1·5547919
0·5696665

2·1244584 = 133·1859 or £133 3s. 8¼d.

What is the value of 82ac. 0ro. 15po. at £12 14s. 6d. per acre?

$$\left.\begin{array}{c} x \\ 1ac. \end{array}\right\} = \begin{cases} 82{\cdot}09375 \text{ ac.} = \text{log. } 1{\cdot}9143100 \\ £12{\cdot}725 = \text{log. } 1{\cdot}1046578 \end{cases}$$

$$\overline{\qquad 3{\cdot}0189678} = 1044{\cdot}642$$

£1044 12s. 10¼d.

Required the value of 525ft. 7in. at 7s. 6d. per foot.

$$7\text{in.} = \frac{7}{12}\text{ft.} = \text{Dec. } \cdot 58\dot{3}$$

$$\left.\begin{array}{c} x \\ 1\,\text{ft.} \end{array}\right\} = \begin{cases} 525{\cdot}583\text{ft.} = \log 2{\cdot}7206415 \\ £{\cdot}375 = \log 1{\cdot}5740313 \end{cases}$$

$$\overline{\qquad 2{\cdot}2946728}$$

£197 1s. 10½d.   or 197·093

By the usual method.

"Suppose that one foot costs one shilling; then 525 feet will cost 525s., and 7 inches will cost 7d.: therefore the value of 525ft. 7in., at 1s. per foot, will cost 525s. 7d. Now at 7s. per foot the price will be seven times as much, hence we multiply by 7; and as 6d. equals ½ of 1s., the price at 6d. equals half of the price at 1s. The price at 7s. and the price at 6d. added together, give 394½s. 10¼d., or £197 1s. 10¼d. as the price at 7s. 6d."

$$525s. \; 7d.$$
$$7$$

	3679	1	
6d. = ½ of 1s.	262	9½	
2,0	394,1	10½	
	£197	1	10½

The above method and example, involving so many complicated operations, is taken from one of the easiest arithmetics published for the use of schools; for the sake of showing how

greatly our school arithmetics might be simplified by the use of a few decimal tables and more scientific principles in the solution of numerical questions.

How much will 41½ yards amount to at £22 17s. 6d. for 25 English ells?

$$41\tfrac{1}{2} \text{ yds.} = 166 \text{ qrs.}$$

$$\left.\begin{array}{r} x \\ 5 \\ 25 \text{ ells} \end{array}\right\} = \left\{\begin{array}{l} 166 \text{ qrs.} = \log 2\cdot2201081 \\ 1 \text{ Ell} = \\ \pounds22\cdot875 = \log 1\cdot3593611 \end{array}\right.$$

$$\overline{3\cdot5794692}$$

$$\text{Deduct } 25 = \log 2\cdot0969100$$

£30 7s. 6¼d. $1\cdot4825592 = 30\cdot378$

Required, the square root of 372·69357 to six places of decimals.

By the usual method.

```
     3,72·69,35,70(19·305273          3,72·69,35,70(19·305273
     1                                1
     ──                               ──
 29  272                          29  272
  9  261                           9  261
 ──  ──                           ──  ──
383  1169                        383  1169
  3  1149                          3  1149
 ──  ──                           ──  ──
38605  203570                  38605  203570
    5  193025                      5  193025
 ──────  ──────               38,6,1,0  ──────
386102  1054500                         10545
     2  772204                           7722
 ──────  ──────                          ────
3861047  28229600                        2823
      7  27027329                        2703
 ──────  ────────                        ────
38610543  120227100                       120
          115831629                       116
          ────────                        ───
            4395471                         4
```

In this example the number is divided into periods by proceeding towards the left in the integral part 372, but towards the right in the decimal part ·69357, adding a cipher to complete the last period. The root is then extracted in the usual way, as on the left of the page. When the number is a mixed decimal, as in the present case, the work may be considerably shortened by finding one more than half the number of figures required in the usual way, and then proceeding to obtain the other figures of the root by the contracted method of division of decimals. If the decimal had been a recurring one, instead of bringing down ciphers, as above, we would have brought down the figures of the recurring decimal.

By logarithms.

$$372\cdot69357 = \log 2\cdot5713517 \div 2 = \log 1\cdot2856758,$$
$$\text{or } 19\cdot30527 \text{ to five decimal places.}$$

What is the 4th power of 1·035 true to 5 places of decimals?

$$1\cdot035 = \log 0\cdot0149403$$
$$4$$

$$\overline{0\cdot0597612} = 1\cdot147522, \text{ 4th power.}$$

If needles be bought for 2s. 6d. a gross, how many may be sold for 1d., to gain 20 per cent.?

$$\left.\begin{array}{r}x\\30d.\\100\end{array}\right\} = \left\{\begin{array}{l}1d.\\144\\120\end{array}\right.$$

The greater the profit the fewer needles must be sold for 1d.; transpose

$$\left.\begin{array}{r}x\\30d.\\120\end{array}\right\} = \left\{\begin{array}{l}1d.\\144\\100\end{array}\right\} = 4$$

What is the area of a rectangle whose length is 4 ft. 9 in., and breadth 3 ft. 5 in.?

$$\left.\begin{array}{l}L\\B\end{array}\right\} = \left\{\begin{array}{l}1\\4\cdot7533 = \log 0\cdot6769981\\3\cdot4166 = \quad\quad 0\cdot5336024\end{array}\right.$$

$$\overline{1\cdot2106005} = 16\cdot2405,$$
$$\text{or 16 ft. 3 in. nearly.}$$

TO CALCULATE SIMPLE INTEREST ON CURRENT ACCOUNTS.

The ordinary Interest Tables cause considerable trouble in balancing accounts, by the necessity of taking in or throwing out fractions of a penny on many successive amounts. To obviate the liability to error occasioned by so many fractions, it is usual to multiply the Dr. and Cr. balances by the number of days which intervene between each transaction, the sum of these products by double the rate per cent., and divide by 73,000, which will give the quotient in pounds and decimals. A great advantage however on this process is obtained by the use of the following tables, after the manner of the Scotch and some Joint Stock Banks, who calculate interest on both sides of a customer's account.

The following are the principles on which the tables are constructed. £50 13s. 10¾d., at 3 per cent., gives exactly one penny per day of interest; £38 0s. 5d., at 4 per cent., gives one penny per day; £30 8s. 4d., at 5 per cent., gives one penny per day. But as £50 does not give one penny at 3 per cent., £38 at 4 per cent., nor £30 at 5 per cent., to cut off all fractions which are too small to affect the calculations, the tables are begun with £51 at 3 per cent., £39 at 4 per cent., and £31 at 5 per cent. For instance, £31 at 5 per cent., gives one penny; £61 gives twopence; £92 gives threepence; and the principal sum that gives one penny per day being added to the former sum, the tables increase one penny on every such addition.

If the interest of £365 for twenty days be required, the product will be 365 × 20 = 7300. Look for this sum in the tables; it will be found to be £1 at 5 per cent., 16s. at 4 per cent., and 12s. at 3 per cent. Fractions of a penny are unavoidably lost in many instances by using the usual tables, but not one farthing can be lost by these.

Three per Cent.

Prince.	Int. £	s.	d.	Prince.	Int. £	s.	d.	Prince.	Int. £	s.	d.	Prince.	Int. £	s.	d.
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
51	0	0	1	2,586	0	4	3	5,121	0	8	5	7,655	0	12	7
102	0	0	2	637	0	4	4	171	0	8	6	706	0	12	8
153	0	0	3	687	0	4	5	222	0	8	7	757	0	12	9
203	0	0	4	738	0	4	6	273	0	8	8	807	0	12	10
254	0	0	5	789	0	4	7	323	0	8	9	858	0	12	11
305	0	0	6	839	0	4	8	374	0	8	10	909	0	13	0
355	0	0	7	890	0	4	9	425	0	8	11	960	0	13	1
406	0	0	8	941	0	4	10	475	0	9	0	8,010	0	13	2
457	0	0	9	991	0	4	11	526	0	9	1	061	0	13	3
507	0	0	10	3,042	0	5	0	577	0	9	2	112	0	13	4
558	0	0	11	093	0	5	1	628	0	9	3	162	0	13	5
609	0	1	0	144	0	5	2	678	0	9	4	213	0	13	6
660	0	1	1	194	0	5	3	729	0	9	5	264	0	13	7
710	0	1	2	245	0	5	4	780	0	9	6	314	0	13	8
761	0	1	3	296	0	5	5	831	0	9	7	365	0	13	9
812	0	1	4	346	0	5	6	881	0	9	8	416	0	13	10
862	0	1	5	397	0	5	7	932	0	9	9	466	0	13	11
913	0	1	6	448	0	5	8	982	0	9	10	517	0	14	0
964	0	1	7	498	0	5	9	6,033	0	9	11	568	0	14	1
1,014	0	1	8	549	0	5	10	084	0	10	0	619	0	14	2
065	0	1	9	600	0	5	11	135	0	10	1	669	0	14	3
116	0	1	10	650	0	6	0	185	0	10	2	720	0	14	4
166	0	1	11	701	0	6	1	236	0	10	3	771	0	14	5
217	0	2	0	752	0	6	2	287	0	10	4	821	0	14	6
268	0	2	1	803	0	6	3	337	0	10	5	872	0	14	7
319	0	2	2	853	0	6	4	388	0	10	6	923	0	14	8
369	0	2	3	904	0	6	5	439	0	10	7	9,024	0	14	10
420	0	2	4	955	0	6	6	489	0	10	8	075	0	14	11
471	0	2	5	4,005	0	6	7	540	0	10	9	125	0	15	0
521	0	2	6	056	0	6	8	591	0	10	10	176	0	15	1
572	0	2	7	107	0	6	9	641	0	10	11	227	0	15	2
623	0	2	8	157	0	6	10	692	0	11	0	278	0	15	3
673	0	2	9	208	0	6	11	743	0	11	1	328	0	15	4
724	0	2	10	259	0	7	0	794	0	11	2	379	0	15	5
775	0	2	11	310	0	7	1	844	0	11	3	430	0	15	6
825	0	3	0	360	0	7	2	895	0	11	4	480	0	15	7
876	0	3	1	411	0	7	3	946	0	11	5	531	0	15	8
927	0	3	2	462	0	7	4	996	0	11	6	582	0	15	9
978	0	3	3	512	0	7	5	7,047	0	11	7	632	0	15	10
2,028	0	3	4	563	0	7	6	098	0	11	8	683	0	15	11
079	0	3	5	614	0	7	7	148	0	11	9	734	0	16	0
130	0	3	6	664	0	7	8	199	0	11	10	785	0	16	1
180	0	3	7	715	0	7	9	250	0	11	11	835	0	16	2
231	0	3	8	766	0	7	10	300	0	12	0	886	0	16	3
282	0	3	9	816	0	7	11	351	0	12	1	937	0	16	4
332	0	3	10	867	0	8	0	402	0	12	2	987	0	16	6
383	0	3	11	918	0	8	1	453	0	12	3	10,038	0	16	7
434	0	4	0	969	0	8	2	503	0	12	4	089	0	16	7
485	0	4	1	5,019	0	8	3	554	0	12	5	139	0	16	8
535	0	4	2	070	0	8	4	605	0	12	6				

Three per Cent.

Prince.	Interest.			Prince.	Interest.			Prince.	Interest.			Prince.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
10,190	0	16	9	12,725	1	0	11	15,260	1	5	1	17,794	1	9	3
241	0	16	10	775	1	1	0	310	1	5	2	845	1	9	4
291	0	16	11	826	1	1	1	361	1	5	3	896	1	9	5
342	0	17	0	877	1	1	2	412	1	5	4	946	1	9	6
393	0	17	1	928	1	1	3	462	1	5	5	997	1	9	7
444	0	17	2	978	1	1	4	513	1	5	6	18,048	1	9	8
494	0	17	3	13,029	1	1	5	564	1	5	7	098	1	9	9
545	0	17	4	080	1	1	6	614	1	5	8	149	1	9	10
596	0	17	5	130	1	1	7	665	1	5	9	200	1	9	11
646	0	17	6	181	1	1	8	716	1	5	10	250	1	10	0
697	0	17	7	232	1	1	9	766	1	5	11	301	1	10	1
748	0	17	8	282	1	1	10	817	1	6	0	352	1	10	2
798	0	17	9	333	1	1	11	868	1	6	1	403	1	10	3
849	0	17	10	384	1	2	0	919	1	6	2	453	1	10	4
900	0	17	11	435	1	2	1	969	1	6	3	504	1	10	5
950	0	18	0	485	1	2	2	16,020	1	6	4	555	1	10	6
11,001	0	18	1	536	1	2	3	071	1	6	5	605	1	10	7
*054	0	18	2	587	1	2	4	121	1	6	6	656	1	10	8
103	0	18	3	637	1	2	5	172	1	6	7	707	1	10	9
153	0	18	4	688	1	2	6	223	1	6	8	757	1	10	10
204	0	18	5	739	1	2	7	273	1	6	9	808	1	10	11
255	0	18	6	789	1	2	8	324	1	6	10	859	1	11	0
305	0	18	7	840	1	2	9	375	1	6	11	910	1	11	1
356	0	18	8	891	1	2	10	425	1	7	0	960	1	11	2
407	0	18	9	941	1	2	11	476	1	7	1	19,011	1	11	3
457	0	18	10	992	1	3	0	527	1	7	2	061	1	11	4
508	0	18	11	14,043	1	3	1	578	1	7	3	112	1	11	5
559	0	19	0	094	1	3	2	628	1	7	4	163	1	11	6
610	0	19	1	144	1	3	3	679	1	7	5	214	1	11	7
660	0	19	2	195	1	3	4	730	1	7	6	264	1	11	8
711	0	19	3	246	1	3	5	780	1	7	7	315	1	11	9
762	0	19	4	296	1	3	6	831	1	7	8	366	1	11	10
812	0	19	5	347	1	3	7	882	1	7	9	416	1	11	11
863	0	19	6	398	1	3	8	932	1	7	10	467	1	12	0
914	0	19	7	448	1	3	9	983	1	7	11	518	1	12	1
964	0	19	8	499	1	3	10	17,034	1	8	0	569	1	12	2
12,015	0	19	9	550	1	3	11	085	1	8	1	619	1	12	3
066	0	19	10	600	1	4	0	135	1	8	2	670	1	12	4
116	0	19	11	651	1	4	1	186	1	8	3	721	1	12	5
167	1	0	0	702	1	4	2	237	1	8	4	771	1	12	6
218	1	0	1	753	1	4	3	287	1	8	5	822	1	12	7
269	1	0	2	803	1	4	4	338	1	8	6	873	1	12	8
319	1	0	3	854	1	4	5	389	1	8	7	923	1	12	9
370	1	0	4	905	1	4	6	439	1	8	8	974	1	12	10
421	1	0	5	955	1	4	7	490	1	8	9	20,025	1	12	11
471	1	0	6	15,006	1	4	8	541	1	8	10	075	1	13	0
522	1	0	7	057	1	4	9	591	1	8	11	126	1	13	1
573	1	0	8	107	1	4	10	642	1	9	0	177	1	13	2
623	1	0	9	158	1	4	11	693	1	9	1	228	1	13	3
674	1	0	10	209	1	5	0	744	1	9	2	278	1	13	4

Three per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
20,329	1 13 5	22,864	1 17 7	25,398	2 1 9	27,933	2 5 11
380	1 13 6	914	1 17 8	449	2 1 10	984	2 6 0
430	1 13 7	965	1 17 9	500	2 1 11	28,035	2 6 1
431	1 13 8	23,016	1 17 10	550	2 2 0	085	2 6 2
532	1 13 9	066	1 17 11	601	2 2 1	136	2 6 3
582	1 13 10	117	1 18 0	652	2 2 2	187	2 6 4
633	1 13 11	168	1 18 1	703	2 2 3	237	2 6 5
684	1 14 0	219	1 18 2	753	2 2 4	288	2 6 6
735	1 14 1	269	1 18 3	804	2 2 5	339	2 6 7
785	1 14 2	320	1 18 4	855	2 2 6	389	2 6 8
836	1 14 3	371	1 18 5	905	2 2 7	440	2 6 9
887	1 14 4	421	1 18 6	956	2 2 8	491	2 6 10
937	1 14 5	472	1 18 7	26,007	2 2 9	541	2 6 11
988	1 14 6	523	1 18 8	057	2 2 10	592	2 7 0
21,039	1 14 7	573	1 18 9	108	2 2 11	643	2 7 1
089	1 14 8	624	1 18 10	159	2 3 0	694	2 7 2
140	1 14 9	675	1 18 11	210	2 3 1	744	2 7 3
191	1 14 10	725	1 19 0	260	2 3 2	795	2 7 4
241	1 14 11	776	1 19 1	311	2 3 3	846	2 7 5
292	1 15 0	827	1 19 2	362	2 3 4	896	2 7 6
343	1 15 1	878	1 19 3	412	2 3 5	947	2 7 7
394	1 15 2	928	1 19 4	463	2 3 6	998	2 7 8
444	1 15 3	979	1 19 5	514	2 3 7	29,048	2 7 9
495	1 15 4	24,030	1 19 6	564	2 3 8	099	2 7 10
546	1 15 5	080	1 19 7	615	2 3 9	150	2 7 11
596	1 15 6	131	1 19 8	666	2 3 10	200	2 8 0
647	1 15 7	182	1 19 9	716	2 3 11	251	2 8 1
698	1 15 8	232	1 19 10	767	2 4 0	302	2 8 2
748	1 15 9	283	1 19 11	818	2 4 1	353	2 8 3
799	1 15 10	334	2 0 0	869	2 4 2	403	2 8 4
850	1 15 11	385	2 0 1	919	2 4 3	454	2 8 5
900	1 16 0	435	2 0 2	970	2 4 4	505	2 8 6
951	1 16 1	486	2 0 3	27,021	2 4 5	555	2 8 7
22,002	1 16 2	537	2 0 4	071	2 4 6	606	2 8 8
053	1 16 3	587	2 0 5	122	2 4 7	657	2 8 9
103	1 16 4	638	2 0 6	173	2 4 8	707	2 8 10
154	1 16 5	689	2 0 7	223	2 4 9	758	2 8 11
205	1 16 6	739	2 0 8	274	2 4 10	809	2 9 0
255	1 16 7	790	2 0 9	325	2 4 11	860	2 9 1
306	1 16 8	841	2 0 10	375	2 5 0	911	2 9 2
357	1 16 9	891	2 0 11	426	2 5 1	961	2 9 3
407	1 16 10	942	2 1 0	477	2 5 2	30,012	2 9 4
458	1 16 11	993	2 1 1	528	2 5 3	062	2 9 5
509	1 17 0	25,044	2 1 2	578	2 5 4	113	2 9 6
560	1 17 1	094	2 1 3	629	2 5 5	164	2 9 7
610	1 17 2	145	2 1 4	680	2 5 6	214	2 9 8
661	1 17 3	196	2 1 5	730	2 5 7	265	2 9 9
712	1 17 4	246	2 1 6	781	2 5 8	316	2 9 10
762	1 17 5	297	2 1 7	832	2 5 9	367	2 9 11
813	1 17 6	348	2 1 8	882	2 5 10	417	2 10 0

Three per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
30,468	2 10 0	33,003	2 14 3	35,537	2 18 5	38,072	3 2 7
519	2 10 1	053	2 14 4	588	2 18 6	123	3 2 8
569	2 10 2	104	2 14 5	639	2 18 7	173	3 2 9
620	2 10 4	155	2 14 6	689	2 18 8	224	3 2 10
671	2 10 5	205	2 14 7	740	2 18 9	275	3 2 11
721	2 10 6	256	2 14 8	791	2 18 10	325	3 3 0
772	2 10 7	307	2 14 9	841	2 18 11	376	3 3 1
823	2 10 8	357	2 14 10	892	2 19 0	427	3 3 2
873	2 10 9	408	2 14 11	943	2 19 1	478	3 3 3
924	2 10 10	459	2 15 0	994	2 19 2	528	3 3 4
975	2 10 11	510	2 15 1	36,044	2 19 3	579	3 3 5
31,025	2 11 0	560	2 15 2	095	2 19 4	630	3 3 6
076	2 11 1	611	2 15 3	146	2 19 5	680	3 3 7
127	2 11 2	662	2 15 4	196	2 19 6	731	3 3 8
178	2 11 3	712	2 15 5	247	2 19 7	782	3 3 9
228	2 11 4	763	2 15 6	298	2 19 8	832	3 3 10
279	2 11 5	814	2 15 7	348	2 19 9	883	3 3 11
330	2 11 6	864	2 15 8	399	2 19 10	934	3 4 0
380	2 11 7	915	2 15 9	450	2 19 11	985	3 4 1
431	2 11 8	966	2 15 10	500	3 0 0	39,035	3 4 2
482	2 11 9	34,016	2 15 11	551	3 0 1	086	3 4 3
532	2 11 10	067	2 16 0	602	3 0 2	137	3 4 4
583	2 11 11	118	2 16 1	653	3 0 3	187	3 4 5
634	2 12 0	169	2 16 2	703	3 0 4	238	3 4 6
685	2 12 1	219	2 16 3	754	3 0 5	289	3 4 7
735	2 12 2	270	2 16 4	805	3 0 6	339	3 4 8
786	2 12 3	321	2 16 5	855	3 0 7	390	3 4 9
837	2 12 4	371	2 16 6	906	3 0 8	441	3 4 10
887	2 12 5	422	2 16 7	957	3 0 9	491	3 4 11
938	2 12 6	473	2 16 8	37,007	3 0 10	542	3 5 0
989	2 12 7	523	2 16 9	058	3 0 11	593	3 5 1
32,039	2 12 8	574	2 16 10	109	3 1 0	644	3 5 2
090	2 12 9	625	2 16 11	160	3 1 1	694	3 5 3
141	2 12 10	675	2 17 0	210	3 1 2	745	3 5 4
192	2 12 11	726	2 17 1	261	3 1 3	796	3 5 5
242	2 13 0	777	2 17 2	312	3 1 4	846	3 5 6
293	2 13 1	828	2 17 3	362	3 1 5	897	3 5 7
344	2 13 2	878	2 17 4	413	3 1 6	948	3 5 8
394	2 13 3	929	2 17 5	464	3 1 7	998	3 5 9
445	2 13 4	980	2 17 6	514	3 1 8	40,049	3 5 10
496	2 13 5	35,030	2 17 7	565	3 1 9	100	3 5 11
546	2 13 6	081	2 17 8	616	3 1 10	150	3 6 0
597	2 13 7	132	2 17 9	666	3 1 11	201	3 6 1
648	2 13 8	182	2 17 10	717	3 2 0	252	3 6 2
698	2 13 9	233	2 17 11	768	3 2 1	303	3 6 3
749	2 13 10	284	2 18 0	819	3 2 2	353	3 6 4
800	2 13 11	335	2 18 1	869	3 2 3	404	3 6 5
850	2 14 0	385	2 18 2	920	3 2 4	455	3 6 6
901	2 14 1	436	2 18 3	971	3 2 5	505	3 6 7
952	2 14 2	487	2 18 4	38,021	3 2 6	556	3 6 8

Three per Cent.

Prince.	Interest.			Prince.	Interest.			Prince.	Interest.			Prince.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
40,607	3	6	9	43,141	3	10	11	45,676	3	15	1	48,211	3	19	3
657	3	6	10	192	3	11	0	727	3	15	2	262	3	19	4
708	3	6	11	243	3	11	1	778	3	15	3	312	3	19	5
759	3	7	0	294	3	11	2	828	3	15	4	363	3	19	6
810	3	7	1	344	3	11	3	879	3	15	5	414	3	19	7
860	3	7	2	395	3	11	4	930	3	15	6	464	3	19	8
911	3	7	3	446	3	11	5	980	3	15	7	515	3	19	9
962	3	7	4	496	3	11	6	46,031	3	15	8	566	3	19	10
41,012	3	7	5	547	3	11	7	082	3	15	9	616	3	19	11
063	3	7	6	598	3	11	8	132	3	15	10	667	4	0	0
114	3	7	7	648	3	11	9	183	3	15	11	718	4	0	1
164	3	7	8	699	3	11	10	234	3	16	0	769	4	0	2
215	3	7	9	750	3	11	11	285	3	16	1	818	4	0	3
266	3	7	10	800	3	12	0	335	3	16	2	870	4	0	4
316	3	7	11	851	3	12	1	386	3	16	3	921	4	0	5
367	3	8	0	902	3	12	2	437	3	16	4	971	4	0	6
418	3	8	1	953	3	12	3	487	3	16	5	49,022	4	0	7
469	3	8	2	44,003	3	12	4	538	3	16	6	073	4	0	8
519	3	8	3	054	3	12	5	589	3	16	7	123	4	0	9
570	3	8	4	105	3	12	6	639	3	16	8	174	4	0	10
621	3	8	5	155	3	12	7	690	3	16	9	225	4	0	11
671	3	8	6	206	3	12	8	741	3	16	10	275	4	1	0
722	3	8	7	257	3	12	9	791	3	16	11	326	4	1	1
773	3	8	8	307	3	12	10	842	3	17	0	377	4	1	2
823	3	8	9	358	3	12	11	893	3	17	1	428	4	1	3
874	3	8	10	409	3	13	0	944	3	17	2	479	4	1	4
925	3	8	11	460	3	13	1	994	3	17	3	529	4	1	5
975	3	9	0	510	3	13	2	47,045	3	17	4	580	4	1	6
42,026	3	9	1	561	3	13	3	096	3	17	5	630	4	1	7
077	3	9	2	612	3	13	4	146	3	17	6	681	4	1	8
128	3	9	3	662	3	13	5	197	3	17	7	732	4	1	9
178	3	9	4	713	3	13	6	248	3	17	8	782	4	1	10
229	3	9	5	764	3	13	7	298	3	17	9	833	4	1	11
280	3	9	6	814	3	13	8	349	3	17	10	884	4	2	0
330	3	9	7	865	3	13	9	400	3	17	11	935	4	2	1
381	3	9	8	916	3	13	10	450	3	18	0	985	4	2	2
432	3	9	9	966	3	13	11	501	3	18	1	50,036	4	2	3
482	3	9	10	45,017	3	14	0	552	3	18	2	087	4	2	4
533	3	9	11	068	3	14	1	603	3	18	3	137	4	2	5
584	3	10	0	119	3	14	2	653	3	18	4	188	4	2	6
635	3	10	1	169	3	14	3	704	3	18	5	239	4	2	7
685	3	10	2	220	3	14	4	755	3	18	6	289	4	2	8
736	3	10	3	271	3	14	5	805	3	18	7	340	4	2	9
787	3	10	4	321	3	14	6	856	3	18	8	391	4	2	10
837	3	10	5	372	3	14	7	907	3	18	9	441	4	2	11
888	3	10	6	423	3	14	8	957	3	18	10	492	4	3	0
939	3	10	7	473	3	14	9	48,008	3	18	11	543	4	3	1
989	3	10	8	524	3	14	10	059	3	19	0	594	4	3	2
43,040	3	10	9	575	3	14	11	110	3	19	1	644	4	3	3
091	3	10	10	625	3	15	0	160	3	19	2	695	4	3	4

Three per Cent.

Prince.	Interest.	Prince.	Interest.	Prince.	Interest.	Prince.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
50,746	4 3 5	53,280	4 7 7	55,815	4 11 9	58,350	4 15 11
796	4 3 6	331	4 7 8	866	4 11 10	400	4 16 0
847	4 3 7	382	4 7 9	916	4 11 11	451	4 16 1
898	4 3 8	432	4 7 10	967	4 12 0	502	4 16 2
948	4 3 9	483	4 7 11	56,018	4 12 1	553	4 16 3
999	4 3 10	534	4 8 0	069	4 12 2	603	4 16 4
51,050	4 3 11	585	4 8 1	119	4 12 3	654	4 16 5
100	4 4 0	635	4 8 2	170	4 12 4	705	4 16 6
151	4 4 1	686	4 8 3	221	4 12 5	755	4 16 7
202	4 4 2	737	4 8 4	271	4 12 6	806	4 16 8
253	4 4 3	787	4 8 5	322	4 12 7	857	4 16 9
303	4 4 4	838	4 8 6	373	4 12 8	907	4 16 10
354	4 4 5	889	4 8 7	423	4 12 9	958	4 16 11
405	4 4 6	939	4 8 8	474	4 12 10	59,009	4 17 0
455	4 4 7	990	4 8 9	525	4 12 11	060	4 17 1
506	4 4 8	54,041	4 8 10	575	4 13 0	110	4 17 2
557	4 4 9	091	4 8 11	626	4 13 1	161	4 17 3
607	4 4 10	142	4 9 0	677	4 13 2	212	4 17 4
658	4 4 11	193	4 9 1	728	4 13 3	262	4 17 5
709	4 5 0	244	4 9 2	778	4 13 4	313	4 17 6
760	4 5 1	294	4 9 3	829	4 13 5	364	4 17 7
810	4 5 2	345	4 9 4	880	4 13 6	414	4 17 8
861	4 5 3	396	4 9 5	930	4 13 7	465	4 17 9
912	4 5 4	446	4 9 6	981	4 13 8	516	4 17 10
963	4 5 5	497	4 9 7	57,032	4 13 9	566	4 17 11
52,013	4 5 6	548	4 9 8	082	4 13 10	617	4 18 0
064	4 5 7	598	4 9 9	133	4 13 11	668	4 18 1
114	4 5 8	649	4 9 10	184	4 14 0	719	4 18 2
165	4 5 9	700	4 9 11	235	4 14 1	769	4 18 3
216	4 5 10	750	4 10 0	285	4 14 2	820	4 18 4
266	4 5 11	801	4 10 1	336	4 14 3	871	4 18 5
317	4 6 0	852	4 10 2	387	4 14 4	921	4 18 6
368	4 6 1	903	4 10 3	437	4 14 5	972	4 18 7
419	4 6 2	953	4 10 4	488	4 14 6	60,023	4 18 8
469	4 6 3	55,004	4 10 5	539	4 14 7	073	4 18 9
520	4 6 4	055	4 10 6	589	4 14 8	124	4 18 10
571	4 6 5	105	4 10 7	640	4 14 9	175	4 18 11
621	4 6 6	156	4 10 8	691	4 14 10	225	4 19 0
672	4 6 7	207	4 10 9	741	4 14 11	276	4 19 1
723	4 6 8	257	4 10 10	792	4 15 0	327	4 19 2
773	4 6 9	308	4 10 11	843	4 15 1	378	4 19 3
824	4 6 10	359	4 11 0	894	4 15 2	428	4 19 4
875	4 6 11	410	4 11 1	944	4 15 3	479	4 19 5
925	4 7 0	460	4 11 2	995	4 15 4	530	4 19 6
976	4 7 1	511	4 11 3	58,046	4 15 5	580	4 19 7
53,027	4 7 2	562	4 11 4	096	4 15 6	631	4 19 8
078	4 7 3	612	4 11 5	147	4 15 7	682	4 19 9
128	4 7 4	663	4 11 6	198	4 15 8	732	4 19 10
179	4 7 5	714	4 11 7	248	4 15 9	783	4 19 11
230	4 7 6	764	4 11 8	299	4 15 10	834	5 0 0

Three per Cent.

Princ.	Interest (£ s. d.)	Princ.	Interest (£ s. d.)	Princ.	Interest (£ s. d.)	Princ.	Interest (£ s. d.)
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
60,885	5 0 1	63,419	5 4 3	65,954	5 8 5	68,489	5 12 7
935	5 0 2	470	5 4 4	66,005	5 8 6	539	5 12 8
985	5 0 3	521	5 4 5	055	5 8 7	590	5 12 9
61,037	5 0 4	571	5 4 6	105	5 8 8	641	5 12 10
087	5 0 5	622	5 4 7	157	5 8 9	692	5 12 11
138	5 0 6	673	5 4 8	207	5 8 10	742	5 13 0
189	5 0 7	723	5 4 9	258	5 8 11	793	5 13 1
239	5 0 8	774	5 4 10	309	5 9 0	844	5 13 2
290	5 0 9	825	5 4 11	360	5 9 1	894	5 13 3
341	5 0 10	875	5 5 0	410	5 9 2	945	5 13 4
391	5 0 11	926	5 5 1	461	5 9 3	996	5 13 5
442	5 1 0	977	5 5 2	512	5 9 4	69,046	5 13 6
493	5 1 1	64,028	5 5 3	562	5 9 5	097	5 13 7
544	5 1 2	078	5 5 4	613	5 9 6	148	5 13 8
594	5 1 3	129	5 5 5	664	5 9 7	198	5 13 9
645	5 1 4	180	5 5 6	714	5 9 8	249	5 13 10
696	5 1 5	230	5 5 7	765	5 9 9	300	5 13 11
746	5 1 6	281	5 5 8	816	5 9 10	350	5 14 0
797	5 1 7	332	5 5 9	866	5 9 11	401	5 14 1
848	5 1 8	382	5 5 10	917	5 10 0	452	5 14 2
898	5 1 9	433	5 5 11	968	5 10 1	503	5 14 3
949	5 1 10	484	5 6 0	67,019	5 10 2	553	5 14 4
000	5 1 11	535	5 6 1	069	5 10 3	604	5 14 5
62,050	5 2 0	585	5 6 2	120	5 10 4	655	5 14 6
101	5 2 1	636	5 6 3	171	5 10 5	705	5 14 7
152	5 2 2	687	5 6 4	221	5 10 6	756	5 14 8
203	5 2 3	737	5 6 5	272	5 10 7	807	5 14 9
253	5 2 4	788	5 6 6	323	5 10 8	857	5 14 10
304	5 2 5	839	5 6 7	373	5 10 9	908	5 14 11
355	5 2 6	889	5 6 8	424	5 10 10	959	5 15 0
405	5 2 7	940	5 6 9	475	5 10 11	70,010	5 15 1
456	5 2 8	991	5 6 10	525	5 11 0	060	5 15 2
507	5 2 9	65,041	5 6 11	576	5 11 1	111	5 15 3
557	5 2 10	092	5 7 0	627	5 11 2	162	5 15 4
608	5 2 11	143	5 7 1	678	5 11 3	212	5 15 5
659	5 3 0	194	5 7 2	728	5 11 4	263	5 15 6
710	5 3 1	244	5 7 3	779	5 11 5	314	5 15 7
760	5 3 2	295	5 7 4	830	5 11 6	364	5 15 8
811	5 3 3	346	5 7 5	880	5 11 7	415	5 15 9
862	5 3 4	396	5 7 6	931	5 11 8	466	5 15 10
912	5 3 5	447	5 7 7	982	5 11 9	516	5 15 11
963	5 3 6	498	5 7 8	68,032	5 11 10	567	5 16 0
014	5 3 7	548	5 7 9	083	5 11 11	618	5 16 1
63,064	5 3 8	599	5 7 10	134	5 12 0	669	5 16 2
115	5 3 9	650	5 7 11	185	5 12 1	719	5 16 3
166	5 3 10	700	5 8 0	235	5 12 2	770	5 16 4
216	5 3 11	751	5 8 1	286	5 12 3	821	5 16 5
267	5 4 0	802	5 8 2	337	5 12 4	871	5 16 6
318	5 4 1	853	5 8 3	387	5 12 5	922	5 16 7
369	5 4 2	903	5 8 4	438	5 12 6	973	5 16 8

Three per Cent.

Prince.	Interest.			Prince.	Interest.			Prince.	Interest.			Prince.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
71,023	5	16	9	73,558	6	0	11	76,093	6	5	1	78,628	6	9	3
074	5	16	9	609	6	1	0	144	6	5	2	678	6	9	4
125	5	16	11	660	6	1	1	194	6	5	3	729	6	9	5
175	5	17	0	710	6	1	2	245	6	5	4	780	6	9	6
226	5	17	1	761	6	1	3	296	6	5	5	830	6	9	7
277	5	17	2	812	6	1	4	346	6	5	6	881	6	9	8
328	5	17	3	862	6	1	5	397	6	5	7	932	6	9	9
378	5	17	4	913	6	1	6	448	6	5	8	983	6	9	10
429	5	17	5	964	6	1	7	498	6	5	9	79,033	6	9	11
480	5	17	6	74,014	6	1	8	549	6	5	10	084	6	10	0
530	5	17	7	065	6	1	9	600	6	5	11	135	6	10	1
581	5	17	8	116	6	1	10	650	6	6	0	185	6	10	2
632	5	17	9	166	6	1	11	701	6	6	1	236	6	10	3
682	5	17	10	217	6	2	0	752	6	6	2	287	6	10	4
733	5	17	11	268	6	2	1	803	6	6	3	337	6	10	5
784	5	18	0	319	6	2	2	853	6	6	4	388	6	10	6
835	5	18	1	369	6	2	3	904	6	6	5	439	6	10	7
885	5	18	2	420	6	2	4	955	6	6	6	489	6	10	8
936	5	18	3	471	6	2	5	77,005	6	6	7	540	6	10	9
987	5	18	4	521	6	2	6	056	6	6	8	591	6	10	10
72,037	5	18	5	572	6	2	7	107	6	6	9	641	6	10	11
088	5	18	6	623	6	2	8	157	6	6	10	692	6	11	0
139	5	18	7	673	6	2	9	208	6	6	11	743	6	11	1
189	5	18	8	724	6	2	10	259	6	7	0	794	6	11	2
240	5	18	9	775	6	2	11	310	6	7	1	844	6	11	3
291	5	18	10	825	6	3	0	360	6	7	2	895	6	11	4
341	5	18	11	876	6	3	1	411	6	7	3	946	6	11	5
392	5	19	0	927	6	3	2	462	6	7	4	996	6	11	6
443	5	19	1	978	6	3	3	512	6	7	5	80,047	6	11	7
494	5	19	2	75,028	6	3	4	563	6	7	6	098	6	11	8
544	5	19	3	079	6	3	5	614	6	7	7	148	6	11	9
595	5	19	4	130	6	3	6	664	6	7	8	199	6	11	10
646	5	19	5	180	6	3	7	715	6	7	9	250	6	11	11
696	5	19	6	231	6	3	8	766	6	7	10	300	6	12	0
747	5	19	7	282	6	3	9	816	6	7	11	351	6	12	1
798	5	19	8	332	6	3	10	867	6	8	0	402	6	12	2
848	5	19	9	383	6	3	11	918	6	8	1	453	6	12	3
899	5	19	10	434	6	4	0	969	6	8	2	503	6	12	4
950	5	19	11	485	6	4	1	78,019	6	8	3	554	6	12	5
73,000	6	0	0	535	6	4	2	070	6	8	4	605	6	12	6
051	6	0	1	586	6	4	3	121	6	8	5	655	6	12	7
102	6	0	2	637	6	4	4	171	6	8	6	706	6	12	8
153	6	0	3	687	6	4	5	222	6	8	7	757	6	12	9
203	6	0	4	738	6	4	6	273	6	8	8	807	6	12	10
254	6	0	5	789	6	4	7	323	6	8	9	858	6	12	11
305	6	0	6	839	6	4	8	374	6	8	10	909	6	13	0
355	6	0	7	890	6	4	9	425	6	8	11	960	6	13	1
406	6	0	8	941	6	4	10	475	6	9	0	81,010	6	13	2
457	6	0	9	991	6	4	11	526	6	9	1	061	6	13	3
507	6	0	10	76,042	6	5	0	577	6	9	2	112	6	13	4

Three per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
81,162	6 13 5	83,697	6 17 7	86,232	7 1 9	88,766	7 5 11
213	6 13 6	748	6 17 8	282	7 1 10	817	7 6 0
264	6 13 7	798	6 17 9	333	7 1 11	868	7 6 1
314	6 13 8	849	6 17 10	384	7 2 0	919	7 6 2
365	6 13 9	900	6 17 11	435	7 2 1	969	7 6 3
416	6 13 10	950	6 18 0	485	7 2 2	89,020	7 6 4
466	6 13 11	84,001	6 18 1	536	7 2 3	071	7 6 5
517	6 14 0	052	6 18 2	587	7 2 4	121	7 6 6
568	6 14 1	103	6 18 3	637	7 2 5	172	7 6 7
619	6 14 2	153	6 18 4	688	7 2 6	223	7 6 8
669	6 14 3	204	6 18 5	739	7 2 7	273	7 6 9
720	6 14 4	255	6 18 6	789	7 2 8	324	7 6 10
771	6 14 5	305	6 18 7	840	7 2 9	375	7 6 11
821	6 14 6	356	6 18 8	891	7 2 10	425	7 7 0
872	6 14 7	407	6 18 9	941	7 2 11	476	7 7 1
923	6 14 8	457	6 18 10	992	7 3 0	527	7 7 2
973	6 14 9	508	6 18 11	87,043	7 3 1	578	7 7 3
82,024	6 14 10	559	6 19 0	094	7 3 2	628	7 7 4
075	6 14 11	610	6 19 1	144	7 3 3	679	7 7 5
125	6 15 0	660	6 19 2	195	7 3 4	730	7 7 6
176	6 15 1	711	6 19 3	246	7 3 5	780	7 7 7
227	6 15 2	762	6 19 4	296	7 3 6	831	7 7 8
278	6 15 3	812	6 19 5	347	7 3 7	882	7 7 9
328	6 15 4	863	6 19 6	398	7 3 8	932	7 7 10
379	6 15 5	914	6 19 7	448	7 3 9	983	7 7 11
430	6 15 6	964	6 19 8	499	7 3 10	90,034	7 8 0
480	6 15 7	85,015	6 19 9	550	7 3 11	085	7 8 1
531	6 15 8	066	6 19 10	600	7 4 0	135	7 8 2
582	6 15 9	116	6 19 11	651	7 4 1	186	7 8 3
632	6 15 10	167	7 0 0	702	7 4 2	237	7 8 4
683	6 15 11	218	7 0 1	753	7 4 3	287	7 8 5
734	6 16 0	269	7 0 2	803	7 4 4	338	7 8 6
785	6 16 1	319	7 0 3	854	7 4 5	389	7 8 7
835	6 16 2	370	7 0 4	905	7 4 6	439	7 8 8
886	6 16 3	421	7 0 5	955	7 4 7	490	7 8 9
937	6 16 4	471	7 0 6	88,006	7 4 8	541	7 8 10
987	6 16 5	522	7 0 7	057	7 4 9	591	7 8 11
83,038	6 16 6	573	7 0 8	107	7 4 10	642	7 9 0
089	6 16 7	623	7 0 9	158	7 4 11	693	7 9 1
139	6 16 8	674	7 0 10	209	7 5 0	744	7 9 2
190	6 16 9	725	7 0 11	260	7 5 1	794	7 9 3
241	6 16 10	775	7 1 0	310	7 5 2	845	7 9 4
291	6 16 11	826	7 1 1	361	7 5 3	896	7 9 5
342	6 17 0	877	7 1 2	412	7 5 4	946	7 9 6
393	6 17 1	928	7 1 3	462	7 5 5	997	7 9 7
444	6 17 2	978	7 1 4	513	7 5 6	91,048	7 9 8
494	6 17 3	86,029	7 1 5	564	7 5 7	098	7 9 9
545	6 17 4	080	7 1 6	614	7 5 8	149	7 9 10
596	6 17 5	130	7 1 7	665	7 5 9	200	7 9 11
646	6 17 6	181	7 1 8	716	7 5 10	250	7 10 0

Three per cent.

Prince.	Interest.	Princ.	Interest.	Princ.	Interest.	Principal.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
91,301	7 10 1	93,836	7 14 3	96,371	7 18 5	98,905	8 2 7
352	7 10 2	887	7 14 4	421	7 18 6	956	8 2 8
403	7 10 3	937	7 14 5	472	7 18 7	99,007	8 2 9
453	7 10 4	988	7 14 6	523	7 18 8	057	8 2 10
504	7 10 5	94,039	7 14 7	573	7 18 9	108	8 2 11
555	7 10 6	089	7 14 8	624	7 18 10	159	8 3 0
605	7 10 7	140	7 14 9	675	7 18 11	210	8 3 1
656	7 10 8	191	7 14 10	725	7 19 0	260	8 3 2
707	7 10 9	241	7 14 11	776	7 19 1	311	8 3 3
757	7 10 10	292	7 15 0	827	7 19 2	362	8 3 4
808	7 10 11	342	7 15 1	878	7 19 3	412	8 3 5
859	7 11 0	394	7 15 2	928	7 19 4	463	8 3 6
910	7 11 1	444	7 15 3	979	7 19 5	514	8 3 7
960	7 11 2	495	7 15 4	97,030	7 19 6	564	8 3 8
92,011	7 11 3	546	7 15 5	080	7 19 7	615	8 3 9
062	7 11 4	596	7 15 6	131	7 19 8	666	8 3 10
112	7 11 5	647	7 15 7	182	7 19 9	716	8 3 11
163	7 11 6	698	7 15 8	232	7 19 10	767	8 4 0
214	7 11 7	748	7 15 9	283	7 19 11	818	8 4 1
264	7 11 8	799	7 15 10	334	8 0 0	869	8 4 2
315	7 11 9	850	7 15 11	385	8 0 1	919	8 4 3
366	7 11 10	900	7 16 0	435	8 0 2	970	8 4 4
416	7 11 11	951	7 16 1	486	8 0 3	100,021	8 4 5
467	7 12 0	95,002	7 16 2	537	8 0 4		
518	7 12 1	053	7 16 3	587	8 0 5		
569	7 12 2	103	7 16 4	638	8 0 6	100,000	8 4 4½
619	7 12 3	154	7 16 5	689	8 0 7	200,000	16 8 9
670	7 12 4	205	7 16 6	739	8 0 8	300,000	24 13 1½
721	7 12 5	255	7 16 7	790	8 0 9	400,000	32 17 6
771	7 12 6	306	7 16 8	841	8 0 10	500,000	41 1 11
822	7 12 7	357	7 16 9	891	8 0 11	600,000	49 6 3½
873	7 12 8	407	7 16 10	942	8 1 0	700,000	57 10 8
923	7 12 9	458	7 16 11	993	8 1 1	800,000	65 15 0½
974	7 12 10	509	7 17 0	98,044	8 1 2	900,000	73 19 5
93,025	7 12 11	560	7 17 1	094	8 1 3	1,000,000	82 3 10
075	7 13 0	610	7 17 2	145	8 1 4	1,100,000	90 8 2½
126	7 13 1	661	7 17 3	196	8 1 5	1,200,000	98 12 7
177	7 13 2	712	7 17 4	246	8 1 6	1,300,000	106 16 11½
228	7 13 3	762	7 17 5	297	8 1 7	1,400,000	115 1 4
278	7 13 4	813	7 17 6	348	8 1 8	1,500,000	123 5 9
329	7 13 5	864	7 17 7	398	8 1 9	1,600,000	131 10 1½
380	7 13 6	915	7 17 8	449	8 1 10	1,700,000	139 14 6
430	7 13 7	966	7 17 9	500	8 1 11	1,800,000	147 18 10½
481	7 13 8	96,016	7 17 10	550	8 2 0	1,900,000	156 3 3
532	7 13 9	066	7 17 11	601	8 2 1	2,000,000	164 7 8
582	7 13 10	117	7 18 0	652	8 2 2		
633	7 13 11	168	7 18 1	703	8 2 3		
684	7 14 0	219	7 18 2	753	8 2 4		
735	7 14 1	269	7 18 3	804	8 2 5		
785	7 14 2	320	7 18 4	855	8 2 6		

Four per Cent.

Prince.	Interest.			Prince.	Interest.			Prince.	Interest.			Prince.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
39	0	0	0	1,940	0	4	3	3,841	0	8	5	5,742	0	12	7
77	0	0	2	978	0	4	4	879	0	8	6	780	0	12	8
115	0	0	3	2,016	0	4	5	917	0	8	7	818	0	12	9
153	0	0	4	054	0	4	6	955	0	8	8	856	0	12	10
191	0	0	5	092	0	4	7	993	0	8	9	894	0	12	11
229	0	0	6	130	0	4	8	4,031	0	8	10	932	0	13	0
267	0	0	7	168	0	4	9	069	0	8	11	970	0	13	1
305	0	0	8	206	0	4	10	107	0	9	0	6,008	0	13	2
343	0	0	9	244	0	4	11	145	0	9	1	046	0	13	3
381	0	0	10	282	0	5	0	183	0	9	2	084	0	13	4
419	0	0	11	320	0	5	1	221	0	9	3	122	0	13	5
457	0	1	0	358	0	5	2	259	0	9	4	160	0	13	6
495	0	1	1	396	0	5	3	297	0	9	5	198	0	13	7
533	0	1	2	434	0	5	4	335	0	9	6	236	0	13	8
571	0	1	3	472	0	5	5	373	0	9	7	274	0	13	9
609	0	1	4	510	0	5	6	411	0	9	8	312	0	13	10
647	0	1	5	548	0	5	7	449	0	9	9	350	0	13	11
685	0	1	6	586	0	5	8	487	0	9	10	388	0	14	0
723	0	1	7	624	0	5	9	525	0	9	11	426	0	14	1
761	0	1	8	662	0	5	10	563	0	10	0	464	0	14	2
799	0	1	9	700	0	5	11	601	0	10	1	502	0	14	3
837	0	1	10	738	0	6	0	639	0	10	2	540	0	14	4
875	0	1	11	776	0	6	1	677	0	10	3	578	0	14	5
913	0	2	0	814	0	6	2	715	0	10	4	616	0	14	6
951	0	2	1	852	0	6	3	753	0	10	5	654	0	14	7
989	0	2	2	890	0	6	4	791	0	10	6	692	0	14	8
1,027	0	2	3	928	0	6	5	829	0	10	7	730	0	14	9
065	0	2	4	966	0	6	6	867	0	10	8	768	0	14	10
103	0	2	5	3,004	0	6	7	905	0	10	9	806	0	14	11
141	0	2	6	042	0	6	8	943	0	10	10	844	0	15	0
179	0	2	7	080	0	6	9	981	0	10	11	882	0	15	1
217	0	2	8	118	0	6	10	5,019	0	11	0	920	0	15	2
255	0	2	9	156	0	6	11	057	0	11	1	958	0	15	3
293	0	2	10	194	0	7	0	095	0	11	2	996	0	15	4
331	0	2	11	232	0	7	1	133	0	11	3	7,034	0	15	5
369	0	3	0	270	0	7	2	171	0	11	4	072	0	15	6
407	0	3	1	308	0	7	3	209	0	11	5	110	0	15	7
445	0	3	2	346	0	7	4	247	0	11	6	148	0	15	8
483	0	3	3	384	0	7	5	285	0	11	7	186	0	15	9
521	0	3	4	422	0	7	6	323	0	11	8	224	0	15	10
559	0	3	5	460	0	7	7	361	0	11	9	262	0	15	11
597	0	3	6	498	0	7	8	399	0	11	10	300	0	16	0
635	0	3	7	536	0	7	9	437	0	11	11	339	0	16	1
673	0	3	8	574	0	7	10	475	0	12	0	377	0	16	2
711	0	3	9	612	0	7	11	514	0	12	1	415	0	16	3
749	0	3	10	650	0	8	0	552	0	12	2	453	0	16	4
787	0	3	11	689	0	8	1	590	0	12	3	491	0	16	5
825	0	4	0	727	0	8	2	628	0	12	4	529	0	16	6
864	0	4	1	765	0	8	3	666	0	12	5	567	0	16	7
902	0	4	2	803	0	8	4	704	0	12	6	605	0	16	8

Four per Cent.

Prince.	Interest.	Prince.	Interest.	Prince.	Interest.	Prince.	Interest.
£	£. s. d.	£	£. s. d.	£	£. s. d.	£	£. s. d.
7,643	0 16 9	9,544	1 0 11	11,445	1 5 1	13,346	1 9 3
681	0 16 10	582	1 1 0	483	1 5 2	384	1 9 4
719	0 16 11	620	1 1 1	521	1 5 3	422	1 9 5
757	0 17 0	658	1 1 2	559	1 5 4	460	1 9 6
795	0 17 1	696	1 1 3	597	1 5 5	498	1 9 7
833	0 17 2	734	1 1 4	635	1 5 6	536	1 9 8
871	0 17 3	772	1 1 5	673	1 5 7	574	1 9 9
909	0 17 4	810	1 1 6	711	1 5 8	612	1 9 10
947	0 17 5	848	1 1 7	749	1 5 9	650	1 9 11
985	0 17 6	886	1 1 8	787	1 5 10	688	1 10 0
8,023	0 17 7	924	1 1 9	825	1 5 11	726	1 10 1
061	0 17 8	962	1 1 10	863	1 6 0	764	1 10 2
099	0 17 9	10,000	1 1 11	901	1 6 1	802	1 10 3
137	0 17 10	038	1 2 0	939	1 6 2	840	1 10 4
175	0 17 11	076	1 2 1	977	1 6 3	878	1 10 5
213	0 18 0	114	1 2 2	12,015	1 6 4	916	1 10 6
251	0 18 1	152	1 2 3	053	1 6 5	954	1 10 7
289	0 18 2	190	1 2 4	091	1 6 6	992	1 10 8
327	0 18 3	228	1 2 5	129	1 6 7	14,030	1 10 9
365	0 18 4	266	1 2 6	167	1 6 8	068	1 10 10
403	0 18 5	304	1 2 7	205	1 6 9	106	1 10 11
441	0 18 6	342	1 2 8	243	1 6 10	144	1 11 0
479	0 18 7	380	1 2 9	281	1 6 11	182	1 11 1
517	0 18 8	418	1 2 10	319	1 7 0	220	1 11 2
555	0 18 9	456	1 2 11	357	1 7 1	258	1 11 3
593	0 18 10	494	1 3 0	395	1 7 2	296	1 11 4
631	0 18 11	532	1 3 1	433	1 7 3	334	1 11 5
669	0 19 0	570	1 3 2	471	1 7 4	372	1 11 6
707	0 19 1	608	1 3 3	509	1 7 5	412	1 11 7
745	0 19 2	646	1 3 4	547	1 7 6	448	1 11 8
783	0 19 3	684	1 3 5	585	1 7 7	486	1 11 9
821	0 19 4	722	1 3 6	623	1 7 8	524	1 11 10
859	0 19 5	760	1 3 7	661	1 7 9	562	1 11 11
897	0 19 6	798	1 3 8	699	1 7 10	600	1 12 0
935	0 19 7	836	1 3 9	737	1 7 11	639	1 12 1
973	0 19 8	874	1 3 10	775	1 8 0	679	1 12 2
9,011	0 19 9	912	1 3 11	814	1 8 1	715	1 12 3
049	0 19 10	950	1 4 0	852	1 8 2	753	1 12 4
087	0 19 11	989	1 4 1	890	1 8 3	791	1 12 5
125	1 0 0	11,027	1 4 2	928	1 8 4	829	1 12 6
164	1 0 1	065	1 4 3	966	1 8 5	867	1 12 7
202	1 0 2	103	1 4 4	13,004	1 8 6	905	1 12 8
240	1 0 3	141	1 4 5	042	1 8 7	943	1 12 9
278	1 0 4	179	1 4 6	080	1 8 8	981	1 12 10
316	1 0 5	217	1 4 7	118	1 8 9	15,019	1 12 11
354	1 0 6	255	1 4 8	156	1 8 10	057	1 13 0
392	1 0 7	293	1 4 9	194	1 8 11	095	1 13 1
430	1 0 8	331	1 4 10	232	1 9 0	133	1 13 2
468	1 0 9	369	1 4 11	270	1 9 1	171	1 13 3
506	1 0 10	407	1 5 0	308	1 9 2	209	1 13 4

Four per Cent.

Prince.	Interest (£ s. d.)	Prince.	Interest (£ s. d.)	Prince.	Interest (£ s. d.)	Prince.	Interest (£ s. d.)
15,247	1 13 5	17,148	1 17 7	19,049	2 1 9	20,950	2 5 11
285	1 13 6	186	1 17 8	087	2 1 10	988	2 6 0
323	1 13 7	224	1 17 9	125	2 1 11	21,026	2 6 1
361	1 13 8	262	1 17 10	163	2 2 0	064	2 6 2
399	1 13 9	300	1 17 11	201	2 2 1	102	2 6 3
437	1 13 10	338	1 18 0	239	2 2 2	140	2 6 4
475	1 13 11	376	1 18 1	277	2 2 3	178	2 6 5
513	1 14 0	414	1 18 2	315	2 2 4	216	2 6 6
551	1 14 1	452	1 18 3	353	2 2 5	254	2 6 7
589	1 14 2	490	1 18 4	391	2 2 6	292	2 6 8
627	1 14 3	528	1 18 5	429	2 2 7	330	2 6 9
665	1 14 4	566	1 18 6	467	2 2 8	368	2 6 10
703	1 14 5	604	1 18 7	505	2 2 9	406	2 6 11
741	1 14 6	642	1 18 8	543	2 2 10	444	2 7 0
779	1 14 7	680	1 18 9	581	2 2 11	482	2 7 1
817	1 14 8	718	1 18 10	619	2 3 0	520	2 7 2
855	1 14 9	756	1 18 11	657	2 3 1	558	2 7 3
893	1 14 10	794	1 19 0	695	2 3 2	596	2 7 4
931	1 14 11	832	1 19 1	733	2 3 3	634	2 7 5
969	1 15 0	870	1 19 2	771	2 3 4	672	2 7 6
16,007	1 15 1	908	1 19 3	809	2 3 5	710	2 7 7
045	1 15 2	946	1 19 4	847	2 3 6	748	2 7 8
083	1 15 3	984	1 19 5	885	2 3 7	786	2 7 9
121	1 15 4	18,022	1 19 6	923	2 3 8	824	2 7 10
159	1 15 5	060	1 19 7	961	2 3 9	862	2 7 11
197	1 15 6	098	1 19 8	999	2 3 10	900	2 8 0
235	1 15 7	136	1 19 9	20,037	2 3 11	939	2 8 1
273	1 15 8	174	1 19 10	075	2 4 0	977	2 8 2
311	1 15 9	212	1 19 11	114	2 4 1	22,015	2 8 3
349	1 15 10	250	2 0 0	152	2 4 2	053	2 8 4
387	1 15 11	289	2 0 1	190	2 4 3	091	2 8 5
425	1 16 0	327	2 0 2	228	2 4 4	129	2 8 6
464	1 16 1	365	2 0 3	266	2 4 5	167	2 8 7
502	1 16 2	403	2 0 4	304	2 4 6	205	2 8 8
540	1 16 3	441	2 0 5	342	2 4 7	243	2 8 9
578	1 16 4	479	2 0 6	380	2 4 8	281	2 8 10
616	1 16 5	517	2 0 7	418	2 4 9	319	2 8 11
654	1 16 6	555	2 0 8	456	2 4 10	357	2 9 0
692	1 16 7	593	2 0 9	494	2 4 11	395	2 9 1
730	1 16 8	631	2 0 10	532	2 5 0	433	2 9 2
768	1 16 9	669	2 0 11	570	2 5 1	471	2 9 3
806	1 16 10	707	2 1 0	608	2 5 2	509	2 9 4
844	1 16 11	745	2 1 1	646	2 5 3	547	2 9 5
882	1 17 0	783	2 1 2	684	2 5 4	585	2 9 6
920	1 17 1	821	2 1 3	722	2 5 5	623	2 9 7
958	1 17 2	859	2 1 4	760	2 5 6	661	2 9 8
996	1 17 3	897	2 1 5	798	2 5 7	699	2 9 9
17,034	1 17 4	935	2 1 6	836	2 5 8	737	2 9 10
072	1 17 5	973	2 1 7	874	2 5 9	775	2 9 11
110	1 17 6	19,011	2 1 8	912	2 5 10	813	2 10 0

D

Four per Cent.

Prince.	Interest.	Prince.	Interest.	Prince.	Interest.	Prince.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
22,851	2 10 0	24,752	2 14 3	26,653	2 18 5	28,554	3 2 7
889	2 10 1	790	2 14 4	691	2 18 6	592	3 2 8
927	2 10 2	828	2 14 5	729	2 18 7	630	3 2 9
965	2 10 3	866	2 14 6	767	2 18 8	668	3 2 10
23,003	2 10 4	904	2 14 7	805	2 18 9	706	3 2 11
041	2 10 5	942	2 14 8	843	2 18 10	744	3 3 0
079	2 10 6	980	2 14 9	881	2 18 11	782	3 3 1
117	2 10 7	25,018	2 14 10	919	2 19 0	820	3 3 2
155	2 10 8	056	2 14 11	957	2 19 1	858	3 3 3
193	2 10 9	094	2 15 0	995	2 19 2	896	3 3 4
231	2 10 10	132	2 15 1	27,033	2 19 3	934	3 3 5
269	2 10 11	170	2 15 2	071	2 19 4	972	3 3 6
307	2 11 0	208	2 15 3	109	2 19 5	29,010	3 3 7
345	2 11 1	246	2 15 4	147	2 19 6	048	3 3 8
383	2 11 2	284	2 15 5	185	2 19 7	086	3 3 9
421	2 11 3	322	2 15 6	223	2 19 8	124	3 3 10
459	2 11 4	360	2 15 7	261	2 19 9	162	3 3 11
497	2 11 5	398	2 15 8	299	2 19 10	200	3 4 0
535	2 11 6	436	2 15 9	337	2 19 11	239	3 4 1
573	2 11 7	474	2 15 10	375	3 0 0	277	3 4 2
611	2 11 8	512	2 15 11	414	3 0 1	315	3 4 3
649	2 11 9	550	2 16 0	452	3 0 2	353	3 4 4
687	2 11 10	589	2 16 1	490	3 0 3	391	3 4 5
725	2 11 11	627	2 16 2	528	3 0 4	429	3 4 6
764	2 12 0	665	2 16 3	566	3 0 5	467	3 4 7
802	2 12 1	703	2 16 4	604	3 0 6	505	3 4 8
840	2 12 2	741	2 16 5	642	3 0 7	543	3 4 9
878	2 12 3	779	2 16 6	680	3 0 8	581	3 4 10
916	2 12 4	817	2 16 7	718	3 0 9	619	3 4 11
954	2 12 5	855	2 16 8	756	3 0 10	657	3 5 0
24,030	2 12 6	893	2 16 9	794	3 0 11	695	3 5 1
068	2 12 7	931	2 16 10	832	3 1 0	733	3 5 2
106	2 12 8	969	2 16 11	870	3 1 1	771	3 5 3
144	2 12 9	26,007	2 17 0	908	3 1 2	809	3 5 4
182	2 12 10	045	2 17 1	946	3 1 3	847	3 5 5
220	2 12 11	083	2 17 2	984	3 1 4	885	3 5 6
258	2 13 0	121	2 17 3	28,022	3 1 5	923	3 5 7
296	2 13 1	159	2 17 4	060	3 1 6	961	3 5 8
334	2 13 2	197	2 17 5	098	3 1 7	999	3 5 9
372	2 13 3	235	2 17 6	136	3 1 8	30,037	3 5 10
410	2 13 4	273	2 17 7	174	3 1 9	075	3 5 11
448	2 13 5	311	2 17 8	212	3 1 10	113	3 6 0
486	2 13 6	349	2 17 9	250	3 1 11	151	3 6 1
524	2 13 7	387	2 17 10	288	3 2 0	189	3 6 2
562	2 13 8	425	2 17 11	326	3 2 1	227	3 6 3
600	2 13 9	463	2 18 0	364	3 2 2	265	3 6 4
638	2 13 10	501	2 18 1	402	3 2 3	303	3 6 5
676	2 13 11	539	2 18 2	440	3 2 4	341	3 6 6
714	2 14 0	577	2 18 3	478	3 2 5	379	3 6 7
		615	2 18 4	516	3 2 6	417	3 6 8

Four per Cent.

Prince.	Interest.	Prince.	Interest.	Prince.	Interest.	Prince.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
30,455	3 6 9	32,356	3 10 11	34,257	3 15 1	36,158	3 19 3
493	3 6 10	394	3 11 0	295	3 15 2	196	3 19 4
531	3 6 11	432	3 11 1	333	3 15 3	234	3 19 5
569	3 7 0	470	3 11 2	371	3 15 4	272	3 19 6
607	3 7 1	508	3 11 3	409	3 15 5	310	3 19 7
645	3 7 2	546	3 11 4	447	3 15 6	348	3 19 8
683	3 7 3	584	3 11 5	485	3 15 7	386	3 19 9
721	3 7 4	622	3 11 6	523	3 15 8	424	3 19 10
759	3 7 5	660	3 11 7	561	3 15 9	462	3 19 11
797	3 7 6	698	3 11 8	599	3 15 10	500	4 0 0
835	3 7 7	736	3 11 9	637	3 15 11	539	4 0 1
873	3 7 8	774	3 11 10	675	3 16 0	577	4 0 2
911	3 7 9	812	3 11 11	714	3 16 1	615	4 0 3
949	3 7 10	850	3 12 0	752	3 16 2	653	4 0 4
987	3 7 11	888	3 12 1	790	3 16 3	691	4 0 5
31,025	3 8 0	927	3 12 2	828	3 16 4	729	4 0 6
064	3 8 1	965	3 12 3	866	3 16 5	767	4 0 7
102	3 8 2	33,003	3 12 4	904	3 16 6	805	4 0 8
140	3 8 3	041	3 12 5	942	3 16 7	843	4 0 9
178	3 8 4	079	3 12 6	980	3 16 8	881	4 0 10
216	3 8 5	117	3 12 7	35,018	3 16 9	919	4 0 11
254	3 8 6	155	3 12 8	056	3 16 10	957	4 1 0
292	3 8 7	193	3 12 9	094	3 16 11	995	4 1 1
330	3 8 8	231	3 12 10	132	3 17 0	37,033	4 1 2
368	3 8 9	269	3 12 11	170	3 17 1	071	4 1 3
406	3 8 10	307	3 13 0	208	3 17 2	109	4 1 4
444	3 8 11	345	3 13 1	246	3 17 3	147	4 1 5
482	3 9 0	383	3 13 2	284	3 17 4	185	4 1 6
520	3 9 1	421	3 13 3	322	3 17 5	223	4 1 7
558	3 9 2	459	3 13 4	360	3 17 6	261	4 1 8
596	3 9 3	497	3 13 5	398	3 17 7	299	4 1 9
634	3 9 4	535	3 13 6	436	3 17 8	337	4 1 10
672	3 9 5	573	3 13 7	474	3 17 9	375	4 1 11
710	3 9 6	611	3 13 8	512	3 17 10	413	4 2 0
748	3 9 7	649	3 13 9	550	3 17 11	451	4 2 1
786	3 9 8	687	3 13 10	588	3 18 0	489	4 2 2
824	3 9 9	725	3 13 11	626	3 18 1	527	4 2 3
862	3 9 10	763	3 14 0	664	3 18 2	565	4 2 4
900	3 9 11	801	3 14 1	702	3 18 3	603	4 2 5
938	3 10 0	839	3 14 2	740	3 18 4	641	4 2 6
976	3 10 1	877	3 14 3	778	3 18 5	679	4 2 7
32,014	3 10 2	915	3 14 4	816	3 18 6	717	4 2 8
052	3 10 3	953	3 14 5	854	3 18 7	755	4 2 9
090	3 10 4	991	3 14 6	892	3 18 8	793	4 2 10
128	3 10 5	34,029	3 14 7	930	3 18 9	831	4 2 11
166	3 10 6	067	3 14 8	968	3 18 10	869	4 3 0
204	3 10 7	105	3 14 9	36,006	3 18 11	907	4 3 1
242	3 10 8	143	3 14 10	044	3 19 0	945	4 3 2
280	3 10 9	181	3 14 11	082	3 19 1	983	4 3 3
318	3 10 10	219	3 15 0	120	3 19 2	38,021	4 3 4

Four per Cent.

Princ.	Interest.			Princ.	Interest.			Princ.	Interest.			Princ.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
38,059	4	3	5	39,960	4	7	7	41,862	4	11	9	43,762	4	15	11
097	4	3	6	998	4	7	8	900	4	11	10	800	4	16	0
135	4	3	7	40,036	4	7	9	938	4	11	11	839	4	16	1
173	4	3	8	074	4	7	10	976	4	12	0	878	4	16	2
211	4	3	9	112	4	7	11	42,014	4	12	1	916	4	16	3
249	4	3	10	150	4	8	0	052	4	12	2	954	4	16	4
287	4	3	11	189	4	8	1	090	4	12	3	992	4	16	5
325	4	4	0	227	4	8	2	128	4	12	4	44,030	4	16	6
365	4	4	1	265	4	8	3	166	4	12	5	068	4	16	7
402	4	4	2	303	4	8	4	204	4	12	6	106	4	16	8
440	4	4	3	341	4	8	5	242	4	12	7	144	4	16	9
478	4	4	4	379	4	8	6	280	4	12	8	182	4	16	10
516	4	4	5	417	4	8	7	318	4	12	9	220	4	16	11
554	4	4	6	455	4	8	8	356	4	12	10	258	4	17	0
592	4	4	7	493	4	8	9	394	4	12	11	296	4	17	1
630	4	4	8	531	4	8	10	432	4	13	0	334	4	17	2
668	4	4	9	569	4	8	11	470	4	13	1	372	4	17	3
706	4	4	10	607	4	9	0	508	4	13	2	410	4	17	4
744	4	4	11	646	4	9	1	546	4	13	3	448	4	17	5
782	4	5	0	684	4	9	2	584	4	13	4	486	4	17	6
820	4	5	1	722	4	9	3	622	4	13	5	524	4	17	7
858	4	5	2	760	4	9	4	660	4	13	6	562	4	17	8
896	4	5	3	798	4	9	5	698	4	13	7	600	4	17	9
934	4	5	4	836	4	9	6	736	4	13	8	638	4	17	10
972	4	5	5	874	4	9	7	774	4	13	9	676	4	17	11
39,010	4	5	6	912	4	9	8	812	4	13	10	714	4	18	0
048	4	5	7	950	4	9	9	850	4	13	11	752	4	18	1
086	4	5	8	988	4	9	10	888	4	14	0	790	4	18	2
124	4	5	9	41,026	4	9	11	926	4	14	1	828	4	18	3
162	4	5	10	064	4	10	0	964	4	14	2	866	4	18	4
200	4	5	11	102	4	10	1	43,002	4	14	3	904	4	18	5
238	4	6	0	140	4	10	2	040	4	14	4	942	4	18	6
276	4	6	1	178	4	10	3	078	4	14	5	980	4	18	7
314	4	6	2	216	4	10	4	116	4	14	6	45,018	4	18	8
352	4	6	3	254	4	10	5	154	4	14	7	056	4	18	9
390	4	6	4	292	4	10	6	192	4	14	8	094	4	18	10
428	4	6	5	330	4	10	7	230	4	14	9	132	4	18	11
466	4	6	6	368	4	10	8	268	4	14	10	170	4	19	0
504	4	6	7	406	4	10	9	306	4	14	11	208	4	19	1
542	4	6	8	444	4	10	10	344	4	15	0	246	4	19	2
580	4	6	9	482	4	10	11	382	4	15	1	284	4	19	3
618	4	6	10	520	4	11	0	420	4	15	2	322	4	19	4
656	4	6	11	558	4	11	1	458	4	15	3	360	4	19	5
694	4	7	0	596	4	11	2	496	4	15	4	398	4	19	6
732	4	7	1	634	4	11	3	534	4	15	5	436	4	19	7
770	4	7	2	672	4	11	4	572	4	15	6	474	4	19	8
808	4	7	3	710	4	11	5	610	4	15	7	512	4	19	9
846	4	7	4	748	4	11	6	648	4	15	8	550	4	19	10
884	4	7	5	786	4	11	7	686	4	15	9	588	4	19	11
922	4	7	6	824	4	11	8	724	4	15	10	626	5	0	0

Four per Cent.

Princ.	Interest.			Princ.	Interest.			Princ.	Interest.			Princ.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
45,665	5	0	0	47,565	5	4	3	49,467	5	8	5	51,368	5	12	7
703	5	0	1	603	5	4	4	505	5	8	6	406	5	12	8
741	5	0	2	641	5	4	5	543	5	8	7	444	5	12	9
779	5	0	3	679	5	4	6	581	5	8	8	482	5	12	10
817	5	0	4	717	5	4	7	619	5	8	9	520	5	12	11
855	5	0	5	755	5	4	8	657	5	8	10	558	5	13	0
893	5	0	6	793	5	4	9	695	5	8	11	596	5	13	1
931	5	0	8	831	5	4	10	733	5	9	0	634	5	13	2
969	5	0	9	869	5	4	11	771	5	9	1	672	5	13	3
46,007	5	0	10	907	5	5	0	809	5	9	2	710	5	13	4
045	5	0	11	945	5	5	1	847	5	9	3	748	5	13	5
082	5	1	0	983	5	5	2	885	5	9	4	786	5	13	6
120	5	1	1	48,021	5	5	3	923	5	9	5	824	5	13	7
158	5	1	2	059	5	5	4	961	5	9	6	862	5	13	8
196	5	1	3	097	5	5	5	999	5	9	7	900	5	13	9
234	5	1	4	135	5	5	6	50,037	5	9	8	938	5	13	10
272	5	1	5	173	5	5	7	075	5	9	9	976	5	13	11
310	5	1	6	211	5	5	8	113	5	9	10	52,014	5	14	0
348	5	1	7	249	5	5	9	151	5	9	11	052	5	14	1
386	5	1	8	287	5	5	10	189	5	10	0	090	5	14	2
424	5	1	9	325	5	5	11	227	5	10	1	128	5	14	3
462	5	1	10	363	5	6	0	265	5	10	2	166	5	14	4
500	5	1	11	402	5	6	1	303	5	10	3	204	5	14	5
538	5	2	0	440	5	6	2	341	5	10	4	242	5	14	6
576	5	2	1	478	5	6	3	379	5	10	5	280	5	14	7
614	5	2	2	516	5	6	4	417	5	10	6	318	5	14	8
652	5	2	3	554	5	6	5	455	5	10	7	356	5	14	9
690	5	2	4	592	5	6	6	493	5	10	8	394	5	14	10
728	5	2	5	630	5	6	7	531	5	10	9	432	5	14	11
766	5	2	6	668	5	6	8	569	5	10	10	470	5	15	0
804	5	2	7	706	5	6	9	607	5	10	11	508	5	15	1
842	5	2	8	744	5	6	10	645	5	11	0	546	5	15	2
880	5	2	9	782	5	6	11	683	5	11	1	584	5	15	3
918	5	2	10	820	5	7	0	721	5	11	2	623	5	15	4
956	5	2	11	858	5	7	1	759	5	11	3	660	5	15	5
994	5	3	0	896	5	7	2	797	5	11	4	698	5	15	6
47,032	5	3	1	934	5	7	3	835	5	11	5	736	5	15	7
070	5	3	2	972	5	7	4	873	5	11	6	774	5	15	8
108	5	3	3	49,010	5	7	5	911	5	11	7	812	5	15	9
146	5	3	4	048	5	7	6	949	5	11	8	850	5	15	10
184	5	3	5	086	5	7	7	987	5	11	9	888	5	15	11
222	5	3	6	124	5	7	8	51,025	5	11	10	926	5	16	0
260	5	3	7	162	5	7	9	063	5	11	11	964	5	16	1
298	5	3	8	200	5	7	10	100	5	12	0	53,002	5	16	2
336	5	3	9	238	5	7	11	139	5	12	1	040	5	16	3
374	5	3	10	276	5	8	0	177	5	12	2	078	5	16	4
412	5	3	11	315	5	8	1	215	5	12	3	116	5	16	5
450	5	4	0	353	5	8	2	253	5	12	4	154	5	16	6
489	5	4	1	391	5	8	3	292	5	12	5	192	5	16	7
527	5	4	2	429	5	8	4	330	5	12	6	230	5	16	8

Four per Cent.

Prince.	Interest.	Prince.	Interest.	Prince.	Interest.	Prince.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
53,268	5 16 9	55,170	6 0 11	57,070	6 5 1	58,972	6 9 3
306	5 16 10	208	6 1 0	108	6 5 2	59,010	6 9 4
344	5 16 11	246	6 1 1	146	6 5 3	048	6 9 5
382	5 17 0	284	6 1 2	184	6 5 4	086	6 9 6
420	5 17 1	322	6 1 3	222	6 5 5	124	6 9 7
458	5 17 2	360	6 1 4	260	6 5 6	162	6 9 8
496	5 17 3	398	6 1 5	298	6 5 7	200	6 9 9
534	5 17 4	436	6 1 6	336	6 5 8	238	6 9 10
572	5 17 5	474	6 1 7	374	6 5 9	276	6 9 11
610	5 17 6	512	6 1 8	412	6 5 10	314	6 10 0
648	5 17 7	550	6 1 9	450	6 5 11	352	6 10 1
686	5 17 8	588	6 1 10	488	6 6 0	390	6 10 2
724	5 17 9	626	6 1 11	526	6 6 1	428	6 10 3
762	5 17 10	664	6 2 0	564	6 6 2	466	6 10 4
800	5 17 11	702	6 2 1	602	6 6 3	504	6 10 5
838	5 18 0	740	6 2 2	640	6 6 4	542	6 10 6
876	5 18 1	778	6 2 3	678	6 6 5	580	6 10 7
914	5 18 2	816	6 2 4	716	6 6 6	618	6 10 8
952	5 18 3	854	6 2 5	754	6 6 7	656	6 10 9
990	5 18 4	892	6 2 6	792	6 6 8	694	6 10 10
54,028	5 18 5	930	6 2 7	830	6 6 9	732	6 10 11
066	5 18 6	968	6 2 8	868	6 6 10	770	6 11 0
104	5 18 7	56,006	6 2 9	906	6 6 11	808	6 11 1
142	5 18 8	044	6 2 10	944	6 7 0	846	6 11 2
180	5 18 9	082	6 2 11	982	6 7 1	884	6 11 3
218	5 18 10	120	6 3 0	58,020	6 7 2	922	6 11 4
256	5 18 11	158	6 3 1	058	6 7 3	960	6 11 5
294	5 19 0	196	6 3 2	096	6 7 4	988	6 11 6
332	5 19 1	234	6 3 3	134	6 7 5	60,036	6 11 7
370	5 19 2	272	6 3 4	172	6 7 6	074	6 11 8
408	5 19 3	310	6 3 5	210	6 7 7	112	6 11 9
446	5 19 4	348	6 3 6	248	6 7 8	150	6 11 10
484	5 19 5	386	6 3 7	286	6 7 9	188	6 11 11
522	5 19 6	424	6 3 8	324	6 7 10	226	6 12 0
560	5 19 7	462	6 3 9	362	6 7 11	264	6 12 1
598	5 19 8	500	6 3 10	400	6 8 0	302	6 12 2
636	5 19 9	538	6 3 11	438	6 8 1	340	6 12 3
674	5 19 10	576	6 4 0	478	6 8 2	378	6 12 4
712	5 19 11	614	6 4 1	516	6 8 3	416	6 12 5
750	6 0 0	652	6 4 2	554	6 8 4	454	6 12 6
789	6 0 1	690	6 4 3	592	6 8 5	492	6 12 7
828	6 0 2	728	6 4 4	630	6 8 6	530	6 12 8
866	6 0 3	766	6 4 5	668	6 8 7	568	6 12 9
904	6 0 4	804	6 4 6	706	6 8 8	606	6 12 10
942	6 0 5	842	6 4 7	744	6 8 9	644	6 12 11
980	6 0 6	880	6 4 8	782	6 8 10	682	6 13 0
55,018	6 0 7	918	6 4 9	820	6 8 11	720	6 13 1
056	6 0 8	956	6 4 10	858	6 9 0	768	6 13 2
094	6 0 9	994	6 4 11	896	6 9 1	796	6 13 3
132	6 0 10	57,032	6 5 0	934	6 9 2	834	6 13 4

Four per Cent.

Princ. £	Interest. £ s. d.	Princ. £	Interest. £ s. d.	Princ. £	Interest. £ s. d.	Princ. £	Interest. £ s. d.
60,872	6 13 6	62,774	6 17 7	64,674	7 1 9	66,576	7 5 11
910	6 13 6	812	6 17 8	712	7 1 10	614	7 6 0
948	6 13 7	850	6 17 9	750	7 1 11	652	7 6 1
986	6 13 8	888	6 17 10	788	7 2 0	690	7 6 2
61,024	6 13 9	926	6 17 11	826	7 2 1	728	7 6 3
062	6 13 10	964	6 18 0	864	7 2 2	766	7 6 4
100	6 13 11	63,002	6 18 1	902	7 2 3	804	7 6 5
138	6 14 0	040	6 18 2	940	7 2 4	842	7 6 6
176	6 14 1	078	6 18 3	978	7 2 5	880	7 6 7
214	6 14 2	116	6 18 4	65,016	7 2 6	918	7 6 8
252	6 14 3	154	6 18 5	054	7 2 7	956	7 6 9
290	6 14 4	192	6 18 6	092	7 2 8	994	7 6 10
328	6 14 5	230	6 18 7	130	7 2 9	67,032	7 6 11
366	6 14 6	268	6 18 8	168	7 2 10	070	7 7 0
404	6 14 7	306	6 18 9	206	7 2 11	108	7 7 1
442	6 14 8	344	6 18 10	244	7 3 0	146	7 7 2
480	6 14 9	382	6 18 11	282	7 3 1	184	7 7 3
518	6 14 10	420	6 19 0	320	7 3 2	222	7 7 4
556	6 14 11	458	6 19 1	358	7 3 3	260	7 7 5
594	6 15 0	496	6 19 2	396	7 3 4	298	7 7 6
632	6 15 1	534	6 19 3	434	7 3 5	336	7 7 7
670	6 15 2	572	6 19 4	472	7 3 6	374	7 7 8
708	6 15 3	610	6 19 5	510	7 3 7	412	7 7 9
746	6 15 4	648	6 19 6	548	7 3 8	450	7 7 10
784	6 15 5	686	6 19 7	586	7 3 9	488	7 7 11
822	6 15 6	724	6 19 8	624	7 3 10	526	7 8 0
860	6 15 7	762	6 19 9	662	7 3 11	564	7 8 1
898	6 15 8	800	6 19 10	700	7 4 0	602	7 8 2
936	6 15 9	838	6 19 11	739	7 4 1	640	7 8 3
974	6 15 10	876	7 0 0	778	7 4 2	678	7 8 4
62,012	6 15 11	914	7 0 1	816	7 4 3	716	7 8 5
050	6 16 0	952	7 0 2	854	7 4 4	754	7 8 6
089	6 16 1	990	7 0 3	892	7 4 5	792	7 8 7
128	6 16 2	64,028	7 0 4	930	7 4 6	830	7 8 8
166	6 16 3	066	7 0 5	968	7 4 7	868	7 8 9
204	6 16 4	104	7 0 6	66,006	7 4 8	906	7 8 10
242	6 16 5	142	7 0 7	044	7 4 9	944	7 8 11
280	6 16 6	180	7 0 8	082	7 4 10	982	7 9 0
318	6 16 7	218	7 0 9	120	7 4 11	68,020	7 9 1
356	6 16 8	256	7 0 10	158	7 5 0	058	7 9 2
394	6 16 9	294	7 0 11	196	7 5 1	096	7 9 3
432	6 16 10	332	7 1 0	234	7 5 2	134	7 9 4
470	6 16 11	370	7 1 1	272	7 5 3	172	7 9 5
508	6 17 0	408	7 1 2	310	7 5 4	210	7 9 6
546	6 17 1	446	7 1 3	348	7 5 5	248	7 9 7
584	6 17 2	484	7 1 4	386	7 5 6	286	7 9 8
622	6 17 3	522	7 1 5	424	7 5 7	324	7 9 9
660	6 17 4	560	7 1 6	462	7 5 8	362	7 9 10
698	6 17 5	598	7 1 7	500	7 5 9	400	7 9 11
736	6 17 6	636	7 1 8	538	7 5 10	438	7 10 0

Four per Cent.

Princ.	£	s.	d.	Princ.	£	s.	d.	Princ.	£	s.	d.	Princ.	£	s.	d.
68,476	7	10	1	70,378	7	14	3	72,278	7	18	5	74,180	8	2	7
514	7	10	2	416	7	14	4	316	7	18	6	218	8	2	8
552	7	10	3	454	7	14	5	354	7	18	7	256	8	2	9
590	7	10	4	492	7	14	6	392	7	18	8	294	8	2	10
628	7	10	5	530	7	14	7	430	7	18	9	332	8	2	11
666	7	10	6	568	7	14	8	468	7	18	10	370	8	3	0
704	7	10	7	606	7	14	9	506	7	18	11	408	8	3	1
742	7	10	8	644	7	14	10	544	7	19	0	446	8	3	2
780	7	10	9	682	7	14	11	582	7	19	1	484	8	3	3
818	7	10	10	720	7	15	0	620	7	19	2	522	8	3	4
856	7	10	11	758	7	15	1	658	7	19	3	560	8	3	5
894	7	11	0	796	7	15	2	696	7	19	4	598	8	3	6
932	7	11	1	834	7	15	3	734	7	19	5	636	8	3	7
970	7	11	2	872	7	15	4	772	7	19	6	674	8	3	8
69,008	7	11	3	910	7	15	5	810	7	19	7	712	8	3	9
046	7	11	4	948	7	15	6	848	7	19	8	750	8	3	10
084	7	11	5	986	7	15	7	886	7	19	9	788	8	3	11
122	7	11	6	71,024	7	15	8	924	7	19	10	826	8	4	0
160	7	11	7	062	7	15	9	962	7	19	11	864	8	4	1
198	7	11	8	100	7	15	10	73,000	8	0	0	902	8	4	2
236	7	11	9	138	7	15	11	039	8	0	1	940	8	4	3
274	7	11	10	176	7	16	0	078	8	0	2	978	8	4	4
312	7	11	11	214	7	16	1	116	8	0	3	75,016	8	4	5
350	7	12	0	252	7	16	2	154	8	0	4	054	8	4	6
389	7	12	1	290	7	16	3	192	8	0	5	092	8	4	7
428	7	12	2	328	7	16	4	230	8	0	6	130	8	4	8
466	7	12	3	366	7	16	5	268	8	0	7	168	8	4	9
504	7	12	4	404	7	16	6	306	8	0	8	206	8	4	10
542	7	12	5	442	7	16	7	344	8	0	9	244	8	4	11
580	7	12	6	480	7	16	8	382	8	0	10	282	8	5	0
618	7	12	7	518	7	16	9	420	8	0	11	320	8	5	1
656	7	12	8	556	7	16	10	458	8	1	0	358	8	5	2
694	7	12	9	594	7	16	11	496	8	1	1	396	8	5	3
732	7	12	10	632	7	17	0	534	8	1	2	434	8	5	4
770	7	12	11	670	7	17	1	572	8	1	3	472	8	5	5
808	7	13	0	708	7	17	2	610	8	1	4	510	8	5	6
846	7	13	1	746	7	17	3	648	8	1	5	548	8	5	7
884	7	13	2	784	7	17	4	686	8	1	6	586	8	5	8
922	7	13	3	822	7	17	5	724	8	1	7	624	8	5	9
960	7	13	4	860	7	17	6	762	8	1	8	662	8	5	10
998	7	13	5	898	7	17	7	800	8	1	9	700	8	5	11
70,036	7	13	6	936	7	17	8	838	8	1	10	738	8	6	0
074	7	13	7	974	7	17	9	876	8	1	11	776	8	6	1
112	7	13	8	72,012	7	17	10	914	8	2	0	814	8	6	2
150	7	13	9	050	7	17	11	952	8	2	1	852	8	6	3
188	7	13	10	088	7	18	0	990	8	2	2	890	8	6	4
226	7	13	11	126	7	18	1	74,028	8	2	3	928	8	6	5
264	7	14	0	164	7	18	2	066	8	2	4	966	8	6	6
302	7	14	1	202	7	18	3	104	8	2	5	76,004	8	6	7
340	7	14	2	240	7	18	4	142	8	2	6	042	8	6	8

Four per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
76,080	8 6 9	77,982	8 10 11	79,882	8 15 1	81,786	8 19 3
118	8 6 10	78,020	8 11 0	920	8 15 2	824	8 19 4
156	8 6 11	058	8 11 1	958	8 15 3	862	8 19 5
194	8 7 0	096	8 11 2	996	8 15 4	900	8 19 6
232	8 7 1	134	8 11 3	80,034	8 15 5	938	8 19 7
270	8 7 2	172	8 11 4	072	8 15 6	976	8 19 8
308	8 7 3	210	8 11 5	110	8 15 7	82,014	8 19 9
346	8 7 4	248	8 11 6	148	8 15 8	052	8 19 10
384	8 7 5	286	8 11 7	186	8 15 9	090	8 19 11
422	8 7 6	324	8 11 8	224	8 15 10	128	9 0 0
460	8 7 7	362	8 11 9	262	8 15 11	166	9 0 1
498	8 7 8	400	8 11 10	300	8 16 0	204	9 0 2
536	8 7 9	438	8 11 11	339	8 16 1	242	9 0 3
574	8 7 10	476	8 12 0	378	8 16 2	280	9 0 4
612	8 7 11	514	8 12 1	416	8 16 3	318	9 0 5
650	8 8 0	552	8 12 2	454	8 16 4	356	9 0 6
689	8 8 1	590	8 12 3	492	8 16 5	394	9 0 7
728	8 8 2	628	8 12 4	530	8 16 6	432	9 0 8
766	8 8 3	666	8 12 5	568	8 16 7	470	9 0 9
804	8 8 4	704	8 12 6	606	8 16 8	508	9 0 10
842	8 8 5	742	8 12 7	644	8 16 9	546	9 0 11
880	8 8 6	780	8 12 8	682	8 16 10	584	9 1 0
918	8 8 7	818	8 12 9	720	8 16 11	622	9 1 1
956	8 8 8	856	8 12 10	758	8 17 0	660	9 1 2
994	8 8 9	894	8 12 11	796	8 17 1	698	9 1 3
77,032	8 8 10	932	8 13 0	834	8 17 2	736	9 1 4
070	8 8 11	970	8 13 1	872	8 17 3	774	9 1 5
108	8 9 0	79,008	8 13 2	910	8 17 4	812	9 1 6
146	8 9 1	046	8 13 3	948	8 17 5	850	9 1 7
184	8 9 2	084	8 13 4	986	8 17 6	888	9 1 8
222	8 9 3	122	8 13 5	81,024	8 17 7	926	9 1 9
260	8 9 4	160	8 13 6	062	8 17 8	964	9 1 10
298	8 9 5	198	8 13 7	100	8 17 9	83,002	9 1 11
336	8 9 6	236	8 13 8	138	8 17 10	040	9 2 0
374	8 9 7	274	8 13 9	176	8 17 11	078	9 2 1
412	8 9 8	312	8 13 10	216	8 18 0	116	9 2 2
450	8 9 9	350	8 13 11	254	8 18 1	154	9 2 3
488	8 9 10	388	8 14 0	292	8 18 2	192	9 2 4
526	8 9 11	426	8 14 1	330	8 18 3	230	9 2 5
564	8 10 0	464	8 14 2	368	8 18 4	268	9 2 6
602	8 10 1	502	8 14 3	406	8 18 5	306	9 2 7
640	8 10 2	540	8 14 4	444	8 18 6	344	9 2 8
678	8 10 3	578	8 14 5	482	8 18 7	382	9 2 9
716	8 10 4	616	8 14 6	520	8 18 8	420	9 2 10
754	8 10 5	654	8 14 7	558	8 18 9	458	9 2 11
792	8 10 6	692	8 14 8	596	8 18 10	496	9 3 0
830	8 10 7	730	8 14 9	634	8 18 11	534	9 3 1
868	8 10 8	768	8 14 10		8 19 0	572	9 3 2
906	8 10 9	806	8 14 11	710	8 19 1	610	9 3 3
944	8 10 10	844	8 15 0	748	8 19 2	648	9 3 4

Four per Cent.

Princ.	£	s.	d.	Princ.	£	s.	d.	Princ.	£	s.	d.	Princ.	£	s.	d.
83,686	9	3	5	85,586	9	7	7	486	9	11	9	89,390	9	15	11
724	9	3	6	624	9	7	8	524	9	11	10	428	9	16	0
762	9	3	7	662	9	7	9	562	9	11	11	466	9	16	1
800	9	3	8	700	9	7	10	600	9	12	0	504	9	16	2
838	9	3	9	738	9	7	11	639	9	12	1	542	9	16	3
876	9	3	10	776	9	8	0	678	9	12	2	580	9	16	4
914	9	3	11	814	9	8	1	716	9	12	3	618	9	16	5
952	9	4	0	852	9	8	2	754	9	12	4	656	9	16	6
990	9	4	1	890	9	8	3	792	9	12	5	694	9	16	7
84,028	9	4	2	928	9	8	4	830	9	12	6	732	9	16	8
066	9	4	3	966	9	8	5	878	9	12	7	770	9	16	9
104	9	4	4	86,004	9	8	6	906	9	12	8	808	9	16	10
142	9	4	5	042	9	8	7	944	9	12	9	846	9	16	11
180	9	4	6	080	9	8	8	982	9	12	10	884	9	17	0
218	9	4	7	118	9	8	9	88,020	9	12	11	922	9	17	1
256	9	4	8	156	9	8	10	058	9	13	0	960	9	17	2
294	9	4	9	194	9	8	11	098	9	13	1	90,036	9	17	4
332	9	4	10	232	9	9	0	136	9	13	2	074	9	17	5
370	9	4	11	270	9	9	1	174	9	13	3	112	9	17	6
408	9	5	0	308	9	9	2	212	9	13	4	150	9	17	7
446	9	5	1	346	9	9	3	250	9	13	5	188	9	17	8
484	9	5	2	384	9	9	4	288	9	13	6	226	9	17	9
522	9	5	3	422	9	9	5	326	9	13	7	264	9	17	10
560	9	5	4	460	9	9	6	364	9	13	8	302	9	17	11
598	9	5	5	498	9	9	7	402	9	13	9	340	9	18	0
636	9	5	6	536	9	9	8	440	9	13	10	378	9	18	1
674	9	5	7	574	9	9	9	478	9	13	11	416	9	18	2
712	9	5	8	612	9	9	10	516	9	14	0	454	9	18	3
750	9	5	9	650	9	9	11	554	9	14	1	492	9	18	4
788	9	5	10	688	9	10	0	592	9	14	2	530	9	18	5
826	9	5	11	726	9	10	1	630	9	14	3	568	9	18	6
864	9	6	0	764	9	10	2	668	9	14	4	606	9	18	7
902	9	6	1	802	9	10	3	706	9	14	5	644	9	18	8
940	9	6	2	840	9	10	4	744	9	14	6	682	9	18	9
978	9	6	3	878	9	10	5	782	9	14	7	720	9	18	10
85,016	9	6	4	916	9	10	6	820	9	14	8	758	9	18	11
054	9	6	5	954	9	10	7	858	9	14	9	796	9	19	0
092	9	6	6	992	9	10	8	896	9	14	10	834	9	19	1
130	9	6	7	87,030	9	10	9	934	9	14	11	872	9	19	2
168	9	6	8	068	9	10	10	972	9	15	0	910	9	19	3
206	9	6	9	106	9	10	11	89,010	9	15	1	948	9	19	4
244	9	6	10	144	9	11	0	048	9	15	2	986	9	19	5
282	9	6	11	182	9	11	1	086	9	15	3	91,024	9	19	6
320	9	7	0	220	9	11	2	124	9	15	4	062	9	19	7
358	9	7	1	258	9	11	3	162	9	15	5	100	9	19	8
396	9	7	2	296	9	11	4	200	9	15	6	138	9	19	9
434	9	7	3	334	9	11	5	238	9	15	7	176	9	19	10
472	9	7	4	372	9	11	6	276	9	15	8	214	9	19	11
510	9	7	5	410	9	11	7	314	9	15	9	252	10	0	0
548	9	7	6	448	9	11	8	352	9	15	10				

Four per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
91,290	10 0 1	93,190	10 4 3	95,091	10 8 5	96,992	10 12 7
328	10 0 2	228	10 4 4	129	10 8 6	97,030	10 12 8
366	10 0 3	266	10 4 5	167	10 8 7	068	10 12 9
404	10 0 4	304	10 4 6	205	10 8 8	106	10 12 10
442	10 0 5	342	10 4 7	243	10 8 9	144	10 12 11
480	10 0 6	380	10 4 8	281	10 8 10	182	10 13 0
518	10 0 7	418	10 4 9	319	10 8 11	221	10 13 1
556	10 0 8	456	10 4 10	357	10 9 0	259	10 13 2
594	10 0 9	494	10 4 11	395	10 9 1	297	10 13 3
632	10 0 10	532	10 5 0	433	10 9 2	335	10 13 4
670	10 0 11	570	10 5 1	471	10 9 3	373	10 13 5
708	10 1 0	608	10 5 2	509	10 9 4	411	10 13 6
746	10 1 1	646	10 5 3	547	10 9 5	449	10 13 7
784	10 1 2	684	10 5 4	585	10 9 6	487	10 13 8
822	10 1 3	722	10 5 5	623	10 9 7	525	10 13 9
860	10 1 4	760	10 5 6	661	10 9 8	563	10 13 10
898	10 1 5	798	10 5 7	699	10 9 9	601	10 13 11
936	10 1 6	836	10 5 8	737	10 9 10	639	10 14 0
974	10 1 7	874	10 5 9	775	10 9 11	678	10 14 1
92,012	10 1 8	912	10 5 10	813	10 10 0	716	10 14 2
050	10 1 9	950	10 5 11	851	10 10 1	754	10 14 3
088	10 1 10	988	10 6 0	889	10 10 2	792	10 14 4
126	10 1 11	94,026	10 6 1	927	10 10 3	830	10 14 5
164	10 2 0	064	10 6 2	965	10 10 4	868	10 14 6
202	10 2 1	102	10 6 3	96,003	10 10 5	906	10 14 7
240	10 2 2	140	10 6 4	041	10 10 6	944	10 14 8
278	10 2 3	178	10 6 5	079	10 10 7	982	10 14 9
316	10 2 4	216	10 6 6	117	10 10 8	98,020	10 14 10
354	10 2 5	254	10 6 7	155	10 10 9	058	10 14 11
392	10 2 6	292	10 6 8	193	10 10 10	096	10 15 0
430	10 2 7	330	10 6 9	231	10 10 11	134	10 15 1
468	10 2 8	368	10 6 10	269	10 11 0	172	10 15 2
506	10 2 9	406	10 6 11	307	10 11 1	210	10 15 3
544	10 2 10	444	10 7 0	345	10 11 2	248	10 15 4
582	10 2 11	482	10 7 1	383	10 11 3	286	10 15 5
620	10 3 0	520	10 7 2	421	10 11 4	324	10 15 6
658	10 3 1	558	10 7 3	459	10 11 5	362	10 15 7
696	10 3 2	596	10 7 4	497	10 11 6	400	10 15 8
734	10 3 3	634	10 7 5	535	10 11 7	438	10 15 9
772	10 3 4	672	10 7 6	573	10 11 8	476	10 15 10
810	10 3 5	710	10 7 7	611	10 11 9	514	10 15 11
848	10 3 6	748	10 7 8	649	10 11 10	552	10 16 0
886	10 3 7	786	10 7 9	687	10 11 11	590	10 16 1
924	10 3 8	824	10 7 10	725	10 12 0	628	10 16 2
962	10 3 9	862	10 7 11	764	10 12 1	666	10 16 3
93,000	10 3 10	900	10 8 0	802	10 12 2	704	10 16 4
038	10 3 11	939	10 8 1	840	10 12 3	742	10 16 5
076	10 4 0	977	10 8 2	878	10 12 4	780	10 16 6
114	10 4 1	95,015	10 8 3	916	10 12 5	818	10 16 7
152	10 4 2	053	10 8 4	954	10 12 6	856	10 16 8

Four per Cent.

Principal.	Interest.			Principal.	Interest.			Principal.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
98,894	10	16	9	99,502	10	18	1	100,000	10	19	2
932	10	16	10	540	10	18	2	200,000	21	18	4½
970	10	16	11	578	10	18	3	300,000	32	17	6½
99,008	10	17	0	616	10	18	4	400,000	43	16	8½
046	10	17	1	654	10	18	5	500,000	54	15	10½
084	10	17	2	692	10	18	6	600,000	65	15	0½
122	10	17	3	730	10	18	7	700,000	76	14	2¼
160	10	17	4	768	10	18	8	800,000	87	13	5
198	10	17	5	806	10	18	9	900,000	98	12	7
236	10	17	6	844	10	18	10	1,000,000	109	11	9½
274	10	17	7	882	10	18	11	1,100,000	120	10	11½
312	10	17	8	920	10	19	0	1,200,000	131	10	1½
350	10	17	9	958	10	19	1	1,300,000	142	9	3¾
388	10	17	10	996	10	19	2	1,400,000	153	8	5¾
426	10	17	11	100,034	10	19	3	1,500,000	164	7	8
464	10	18	0					1,600,000	175	6	10
								1,700,000	186	6	0½
								1,800,000	197	5	2¼
								1,900,000	208	4	4½
								2,000,000	219	3	6½

Five per Cent.

Princ.	Interest.			Princ.	Interest.			Princ.	Interest.			Princ.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
31	0	0	1	730	0	2	0	1,430	0	3	11	2,130	0	5	10
61	0	0	2	761	0	2	1	460	0	4	0	160	0	5	11
92	0	0	3	791	0	2	2	491	0	4	1	190	0	6	0
122	0	0	4	822	0	2	3	521	0	4	2	221	0	6	1
153	0	0	5	852	0	2	4	552	0	4	3	251	0	6	2
183	0	0	6	883	0	2	5	582	0	4	4	282	0	6	3
213	0	0	7	913	0	2	6	613	0	4	5	312	0	6	4
244	0	0	8	943	0	2	7	643	0	4	6	343	0	6	5
274	0	0	9	974	0	2	8	673	0	4	7	373	0	6	6
305	0	0	10	1,004	0	2	9	704	0	4	8	403	0	6	7
335	0	0	11	035	0	2	10	734	0	4	9	434	0	6	8
365	0	1	0	065	0	2	11	765	0	4	10	464	0	6	9
396	0	1	1	095	0	3	0	795	0	4	11	495	0	6	10
426	0	1	2	126	0	3	1	826	0	5	0	525	0	6	11
457	0	1	3	156	0	3	2	856	0	5	1	555	0	7	0
487	0	1	4	187	0	3	3	886	0	5	2	586	0	7	1
518	0	1	5	217	0	3	4	917	0	5	3	616	0	7	2
548	0	1	6	248	0	3	5	947	0	5	4	647	0	7	3
578	0	1	7	278	0	3	6	978	0	5	5	677	0	7	4
609	0	1	8	308	0	3	7	2,008	0	5	6	708	0	7	5
639	0	1	9	339	0	3	8	038	0	5	7	738	0	7	6
670	0	1	10	369	0	3	9	069	0	5	8	768	0	7	7
700	0	1	11	400	0	3	10	099	0	5	9	799	0	7	8

Five per Cent.

Princ.	Interest	Princ.	Interest	Princ.	Interest	Princ.	Interest
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
2,829	0 7 9	4,350	0 11 11	5,871	0 16 1	7,392	1 0 3
860	0 7 10	380	0 12 0	901	0 16 2	422	1 0 4
890	0 7 11	411	0 12 1	932	0 16 3	453	1 0 5
920	0 8 0	441	0 12 2	962	0 16 4	483	1 0 6
951	0 8 1	472	0 12 3	993	0 16 5	513	1 0 7
981	0 8 2	502	0 12 4	6,023	0 16 6	544	1 0 8
3,012	0 8 3	533	0 12 5	053	0 16 7	574	1 0 9
042	0 8 4	563	0 12 6	084	0 16 8	605	1 0 10
073	0 8 5	593	0 12 7	114	0 16 9	635	1 0 11
103	0 8 6	624	0 12 8	145	0 16 10	665	1 1 0
133	0 8 7	654	0 12 9	175	0 16 11	696	1 1 1
164	0 8 8	685	0 12 10	205	0 17 0	726	1 1 2
194	0 8 9	715	0 12 11	236	0 17 1	757	1 1 3
225	0 8 10	745	0 13 0	266	0 17 2	787	1 1 4
1255	0 8 11	776	0 13 1	297	0 17 3	818	1 1 5
285	0 9 0	806	0 13 2	327	0 17 4	848	1 1 6
316	0 9 1	837	0 13 3	358	0 17 5	878	1 1 7
346	0 9 2	867	0 13 4	388	0 17 6	909	1 1 8
377	0 9 3	898	0 13 5	418	0 17 7	939	1 1 9
407	0 9 4	928	0 13 6	449	0 17 8	970	1 1 10
438	0 9 5	958	0 13 7	479	0 17 9	8,000	1 1 11
468	0 9 6	989	0 13 8	510	0 17 10	030	1 2 0
498	0 9 7	5,019	0 13 9	540	0 17 11	061	1 2 1
529	0 9 8	050	0 13 10	570	0 18 0	091	1 2 2
559	0 9 9	080	0 13 11	601	0 18 1	122	1 2 3
590	0 9 10	110	0 14 0	631	0 18 2	152	1 2 4
620	0 9 11	141	0 14 1	662	0 18 3	183	1 2 5
650	0 10 0	171	0 14 2	692	0 18 4	213	1 2 6
681	0 10 1	202	0 14 3	723	0 18 5	243	1 2 7
711	0 10 2	232	0 14 4	753	0 18 6	274	1 2 8
742	0 10 3	263	0 14 5	783	0 18 7	304	1 2 9
772	0 10 4	293	0 14 6	814	0 18 8	335	1 2 10
803	0 10 5	323	0 14 7	844	0 18 9	365	1 2 11
833	0 10 6	354	0 14 8	875	0 18 10	395	1 3 0
863	0 10 7	384	0 14 9	905	0 18 11	426	1 3 1
894	0 10 8	415	0 14 10	935	0 19 0	456	1 3 2
924	0 10 9	445	0 14 11	966	0 19 1	487	1 3 3
955	0 10 10	475	0 15 0	996	0 19 2	517	1 3 4
985	0 10 11	506	0 15 1	7,027	0 19 3	548	1 3 5
4,015	0 11 0	536	0 15 2	057	0 19 4	578	1 3 6
046	0 11 1	567	0 15 3	088	0 19 5	608	1 3 7
076	0 11 2	597	0 15 4	118	0 19 6	639	1 3 8
107	0 11 3	628	0 15 5	148	0 19 7	669	1 3 9
137	0 11 4	658	0 15 6	179	0 19 8	700	1 3 10
168	0 11 5	688	0 15 7	209	0 19 9	730	1 3 11
198	0 11 6	719	0 15 8	240	0 19 10	760	1 4 0
228	0 11 7	749	0 15 9	270	0 19 11	791	1 4 1
259	0 11 8	780	0 15 10	300	1 0 0	821	1 4 2
289	0 11 9	810	0 15 11	331	1 0 1	852	1 4 3
320	0 11 10	840	0 16 0	361	1 0 2	882	1 4 4

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
8,913	1 4 5	10,433	1 8 7	11,954	1 12 9	13,475	1 16 11
943	1 4 6	464	1 8 8	985	1 12 10	505	1 17 0
973	1 4 7	494	1 8 9	12,015	1 12 11	536	1 17 1
9,004	1 4 8	525	1 8 10	045	1 13 0	566	1 17 2
034	1 4 9	555	1 8 11	076	1 13 1	597	1 17 3
065	1 4 10	585	1 9 0	106	1 13 2	627	1 17 4
095	1 4 11	616	1 9 1	137	1 13 3	658	1 17 5
125	1 5 0	646	1 9 2	167	1 13 4	688	1 17 6
156	1 5 1	677	1 9 3	198	1 13 5	718	1 17 7
186	1 5 2	707	1 9 4	228	1 13 6	749	1 17 8
217	1 5 3	738	1 9 5	258	1 13 7	779	1 17 9
247	1 5 4	768	1 9 6	289	1 13 8	810	1 17 10
278	1 5 5	799	1 9 7	319	1 13 9	840	1 17 11
308	1 5 6	829	1 9 8	350	1 13 10	870	1 18 0
338	1 5 7	859	1 9 9	380	1 13 11	901	1 18 1
369	1 5 8	890	1 9 10	410	1 14 0	931	1 18 2
399	1 5 9	920	1 9 11	441	1 14 1	962	1 18 3
430	1 5 10	950	1 10 0	471	1 14 2	992	1 18 4
460	1 5 11	981	1 10 1	502	1 14 3	14,023	1 18 5
490	1 6 0	11,011	1 10 2	532	1 14 4	053	1 18 6
521	1 6 1	042	1 10 3	563	1 14 5	083	1 18 7
551	1 6 2	072	1 10 4	593	1 14 6	114	1 18 8
582	1 6 3	103	1 10 5	623	1 14 7	144	1 18 9
612	1 6 4	133	1 10 6	654	1 14 8	175	1 18 10
643	1 6 5	163	1 10 7	684	1 14 9	205	1 18 11
673	1 6 6	194	1 10 8	715	1 14 10	236	1 19 0
703	1 6 7	224	1 10 9	745	1 14 11	266	1 19 1
734	1 6 8	255	1 10 10	775	1 15 0	296	1 19 2
764	1 6 9	285	1 10 11	806	1 15 1	327	1 19 3
795	1 6 10	315	1 11 0	836	1 15 2	357	1 19 4
825	1 6 11	346	1 11 1	867	1 15 3	388	1 19 5
855	1 7 0	376	1 11 2	897	1 15 4	418	1 19 6
886	1 7 1	407	1 11 3	928	1 15 5	448	1 19 7
916	1 7 2	437	1 11 4	958	1 15 6	479	1 19 8
947	1 7 3	468	1 11 5	988	1 15 7	509	1 19 9
977	1 7 4	498	1 11 6	13,019	1 15 8	540	1 19 10
10,008	1 7 5	528	1 11 7	049	1 15 9	570	1 19 11
038	1 7 6	559	1 11 8	080	1 15 10	600	2 0 0
068	1 7 7	589	1 11 9	110	1 15 11	631	2 0 1
099	1 7 8	620	1 11 10	140	1 16 0	661	2 0 2
129	1 7 9	650	1 11 11	171	1 16 1	692	2 0 3
160	1 7 10	680	1 12 0	201	1 16 2	722	2 0 4
190	1 7 11	711	1 12 1	232	1 16 3	753	2 0 5
220	1 8 0	741	1 12 2	262	1 16 4	783	2 0 6
251	1 8 1	772	1 12 3	293	1 16 5	813	2 0 7
281	1 8 2	802	1 12 4	323	1 16 6	844	2 0 8
312	1 8 3	833	1 12 5	353	1 16 7	874	2 0 9
342	1 8 4	863	1 12 6	384	1 16 8	905	2 0 10
373	1 8 5	893	1 12 7	414	1 16 9	935	2 0 11
403	1 8 6	924	1 12 8	445	1 16 10	965	2 1 0

Five per Cent.

Princ.	Interest.			Princ.	Interest.			Princ.	Interest.			Princ.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
14,996	2	1	1	16,517	2	5	3	18,038	2	9	5	19,558	2	13	7
15,026	2	1	2	547	2	5	4	068	2	9	6	589	2	13	8
057	2	1	3	578	2	5	5	098	2	9	7	619	2	13	9
087	2	1	4	608	2	5	6	129	2	9	8	650	2	13	10
118	2	1	5	638	2	5	7	159	2	9	9	680	2	13	11
148	2	1	6	669	2	5	8	190	2	9	10	710	2	14	0
178	2	1	7	699	2	5	9	220	2	9	11	741	2	14	1
209	2	1	8	730	2	5	10	250	2	10	0	771	2	14	2
239	2	1	9	760	2	5	11	281	2	10	1	802	2	14	3
270	2	1	10	790	2	6	0	311	2	10	2	832	2	14	4
300	2	1	11	821	2	6	1	342	2	10	3	863	2	14	5
330	2	2	0	851	2	6	2	372	2	10	4	893	2	14	6
361	2	2	1	882	2	6	3	403	2	10	5	923	2	14	7
391	2	2	2	912	2	6	4	433	2	10	6	954	2	14	8
422	2	2	3	943	2	6	5	463	2	10	7	984	2	14	9
452	2	2	4	973	2	6	6	494	2	10	8	20,015	2	14	10
483	2	2	5	17,003	2	6	7	524	2	10	9	045	2	14	11
513	2	2	6	034	2	6	8	555	2	10	10	075	2	15	0
543	2	2	7	064	2	6	9	585	2	10	11	106	2	15	1
574	2	2	8	095	2	6	10	615	2	11	0	136	2	15	2
604	2	2	9	125	2	6	11	646	2	11	1	167	2	15	3
635	2	2	10	155	2	7	0	676	2	11	2	197	2	15	4
665	2	2	11	186	2	7	1	707	2	11	3	228	2	15	5
695	2	3	0	216	2	7	2	737	2	11	4	258	2	15	6
726	2	3	1	247	2	7	3	767	2	11	5	288	2	15	7
756	2	3	2	277	2	7	4	798	2	11	6	319	2	15	8
787	2	3	3	308	2	7	5	828	2	11	7	349	2	15	9
817	2	3	4	338	2	7	6	859	2	11	8	380	2	15	10
848	2	3	5	368	2	7	7	889	2	11	9	410	2	15	11
878	2	3	6	399	2	7	8	920	2	11	10	440	2	16	0
908	2	3	7	429	2	7	9	950	2	11	11	471	2	16	1
939	2	3	8	460	2	7	10	980	2	12	0	501	2	16	2
969	2	3	9	490	2	7	11	19,011	2	12	1	532	2	16	3
16,000	2	3	10	520	2	8	0	041	2	12	2	562	2	16	4
030	2	3	11	551	2	8	1	072	2	12	3	593	2	16	5
060	2	4	0	581	2	8	2	102	2	12	4	623	2	16	6
091	2	4	1	612	2	8	3	133	2	12	5	653	2	16	7
121	2	4	2	642	2	8	4	163	2	12	6	684	2	16	8
152	2	4	3	673	2	8	5	193	2	12	7	714	2	16	9
182	2	4	4	703	2	8	6	224	2	12	8	745	2	16	10
213	2	4	5	733	2	8	7	254	2	12	9	775	2	16	11
243	2	4	6	764	2	8	8	285	2	12	10	805	2	17	0
273	2	4	7	794	2	8	9	315	2	12	11	836	2	17	1
304	2	4	8	825	2	8	10	345	2	13	0	866	2	17	2
334	2	4	9	855	2	8	11	376	2	13	1	897	2	17	3
365	2	4	10	885	2	9	0	406	2	13	2	927	2	17	4
395	2	4	11	916	2	9	1	437	2	13	3	958	2	17	5
425	2	5	0	946	2	9	2	467	2	13	4	988	2	17	6
456	2	5	1	977	2	9	3	498	2	13	5	21,018	2	17	7
486	2	5	2	18,007	2	9	4	528	2	13	6	049	2	17	8

Five per Cent.

Prince.	Interest.	Prince.	Interest.	Prince.	Interest.	Prince.	Interest.
£.	£. s. d.	£.	£. s. d.	£.	£. s. d.	£.	£. s. d.
21,079	2 17 9	22,600	3 1 11	24,121	3 6 1	25,642	3 10 3
110	2 17 10	630	3 2 0	151	3 6 2	672	3 10 4
140	2 17 11	661	3 2 1	182	3 6 3	703	3 10 5
170	2 18 0	691	3 2 2	212	3 6 4	733	3 10 6
201	2 18 1	722	3 2 3	243	3 6 5	763	3 10 7
231	2 18 2	752	3 2 4	273	3 6 6	794	3 10 8
262	2 18 3	783	3 2 5	303	3 6 7	824	3 10 9
292	2 18 4	813	3 2 6	334	3 6 8	855	3 10 10
323	2 18 5	843	3 2 7	364	3 6 9	885	3 10 11
353	2 18 6	874	3 2 8	395	3 6 10	915	3 11 0
383	2 18 7	904	3 2 9	425	3 6 11	946	3 11 1
414	2 18 8	935	3 2 10	455	3 7 0	976	3 11 2
444	2 18 9	965	3 2 11	486	3 7 1	26,007	3 11 3
475	2 18 10	995	3 3 0	516	3 7 2	037	3 11 4
505	2 18 11	23,026	3 3 1	546	3 7 3	068	3 11 5
535	2 19 0	056	3 3 2	577	3 7 4	098	3 11 6
566	2 19 1	087	3 3 3	608	3 7 5	128	3 11 7
596	2 19 2	117	3 3 4	638	3 7 6	159	3 11 8
627	2 19 3	148	3 3 5	668	3 7 7	189	3 11 9
657	2 19 4	178	3 3 6	699	3 7 8	220	3 11 10
688	2 19 5	208	3 3 7	729	3 7 9	250	3 11 11
718	2 19 6	239	3 3 8	760	3 7 10	280	3 12 0
748	2 19 7	269	3 3 9	790	3 7 11	311	3 12 1
779	2 19 8	300	3 3 10	820	3 8 0	341	3 12 2
809	2 19 9	330	3 3 11	851	3 8 1	372	3 12 3
840	2 19 10	360	3 4 0	881	3 8 2	402	3 12 4
870	2 19 11	391	3 4 1	912	3 8 3	433	3 12 5
900	3 0 0	421	3 4 2	942	3 8 4	463	3 12 6
931	3 0 1	452	3 4 3	973	3 8 5	493	3 12 7
961	3 0 2	482	3 4 4	25,003	3 8 6	524	3 12 8
992	3 0 3	513	3 4 5	033	3 8 7	554	3 12 9
22,022	3 0 4	543	3 4 6	064	3 8 8	585	3 12 10
053	3 0 5	573	3 4 7	094	3 8 9	615	3 12 11
083	3 0 6	604	3 4 8	125	3 8 10	645	3 13 0
113	3 0 7	634	3 4 9	155	3 8 11	676	3 13 1
144	3 0 8	665	3 4 10	185	3 9 0	706	3 13 2
174	3 0 9	695	3 4 11	216	3 9 1	737	3 13 3
204	3 0 10	725	3 5 0	246	3 9 2	767	3 13 4
235	3 0 11	756	3 5 1	277	3 9 3	798	3 13 5
265	3 1 0	786	3 5 2	307	3 9 4	828	3 13 6
296	3 1 1	817	3 5 3	338	3 9 5	858	3 13 7
326	3 1 2	847	3 5 4	368	3 9 6	889	3 13 8
357	3 1 3	878	3 5 5	398	3 9 7	919	3 13 9
387	3 1 4	908	3 5 6	429	3 9 8	950	3 13 10
418	3 1 5	938	3 5 7	459	3 9 9	980	3 13 11
448	3 1 6	969	3 5 8	490	3 9 10	27,010	3 14 0
478	3 1 7	999	3 5 9	520	3 9 11	041	3 14 1
509	3 1 8	24,030	3 5 10	550	3 10 0	071	3 14 2
539	3 1 9	060	3 5 11	581	3 10 1	102	3 14 3
570	3 1 10	090	3 6 0	611	3 10 2	132	3 14 4

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
27,163	3 14 5	28,683	3 18 7	30,204	4 2 9	31,725	4 6 11
193	3 14 6	714	3 18 8	235	4 2 10	755	4 7 0
223	3 14 7	744	3 18 9	265	4 2 11	786	4 7 1
254	3 14 8	775	3 18 10	295	4 3 0	816	4 7 2
284	3 14 9	805	3 18 11	326	4 3 1	847	4 7 3
315	3 14 10	835	3 19 0	356	4 3 2	877	4 7 4
345	3 14 11	866	3 19 1	387	4 3 3	908	4 7 5
375	3 15 0	896	3 19 2	417	4 3 4	938	4 7 6
406	3 15 1	927	3 19 3	448	4 3 5	968	4 7 7
436	3 15 2	957	3 19 4	478	4 3 6	999	4 7 8
467	3 15 3	988	3 19 5	508	4 3 7	32,029	4 7 9
497	3 15 4	29,018	3 19 6	539	4 3 8	060	4 7 10
528	3 15 5	048	3 19 7	569	4 3 9	090	4 7 11
558	3 15 6	079	3 19 8	600	4 3 10	120	4 8 0
588	3 15 7	109	3 19 9	630	4 3 11	151	4 8 1
619	3 15 8	140	3 19 10	660	4 4 0	181	4 8 2
649	3 15 9	170	3 19 11	691	4 4 1	212	4 8 3
680	3 15 10	200	4 0 0	721	4 4 2	242	4 8 4
710	3 15 11	231	4 0 1	752	4 4 3	273	4 8 5
740	3 16 0	261	4 0 2	782	4 4 4	303	4 8 6
771	3 16 1	292	4 0 3	813	4 4 5	333	4 8 7
801	3 16 2	322	4 0 4	843	4 4 6	364	4 8 8
832	3 16 3	353	4 0 5	873	4 4 7	394	4 8 9
862	3 16 4	383	4 0 6	904	4 4 8	425	4 8 10
893	3 16 5	413	4 0 7	934	4 4 9	455	4 8 11
923	3 16 6	444	4 0 8	965	4 4 10	485	4 9 0
953	3 16 7	474	4 0 9	995	4 4 11	516	4 9 1
984	3 16 8	505	4 0 10	31,025	4 5 0	546	4 9 2
28,014	3 16 9	535	4 0 11	056	4 5 1	577	4 9 3
045	3 16 10	565	4 1 0	086	4 5 2	607	4 9 4
075	3 16 11	596	4 1 1	117	4 5 3	638	4 9 5
105	3 17 0	626	4 1 2	147	4 5 4	668	4 9 6
136	3 17 1	657	4 1 3	178	4 5 5	698	4 9 7
166	3 17 2	687	4 1 4	208	4 5 6	729	4 9 8
197	3 17 3	718	4 1 5	238	4 5 7	759	4 9 9
227	3 17 4	748	4 1 6	269	4 5 8	790	4 9 10
258	3 17 5	778	4 1 7	299	4 5 9	820	4 9 11
288	3 17 6	809	4 1 8	330	4 5 10	850	4 10 0
318	3 17 7	839	4 1 9	360	4 5 11	881	4 10 1
349	3 17 8	870	4 1 10	390	4 6 0	911	4 10 2
379	3 17 9	900	4 1 11	421	4 6 1	942	4 10 3
410	3 17 10	930	4 2 0	451	4 6 2	972	4 10 4
440	3 17 11	961	4 2 1	482	4 6 3	33,003	4 10 5
470	3 18 0	991	4 2 2	512	4 6 4	033	4 10 6
501	3 18 1	30,022	4 2 3	543	4 6 5	063	4 10 7
531	3 18 2	052	4 2 4	573	4 6 6	094	4 10 8
562	3 18 3	083	4 2 5	603	4 6 7	124	4 10 9
592	3 18 4	113	4 2 6	634	4 6 8	155	4 10 10
623	3 18 5	143	4 2 7	664	4 6 9	185	4 10 11
653	3 18 6	174	4 2 8	695	4 6 10	215	4 11 0

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	s. d.	£	£ s. d	£	£ s. d.	£	£ s. d.
33,246	4 11 1	34,767	4 15 3	36,288	4 19 5	37,808	5 3 7
276	4 11 2	797	4 15 4	318	4 19 6	839	5 3 8
307	4 11 3	828	4 15 5	348	4 19 7	869	5 3 9
337	4 11 4	858	4 15 6	379	4 19 8	900	5 3 10
368	4 11 5	888	4 15 7	409	4 19 9	930	5 3 11
398	4 11 6	919	4 15 8	440	4 19 10	960	5 4 0
428	4 11 7	949	4 15 9	470	4 19 11	991	5 4 1
459	4 11 8	980	4 15 10	500	5 0 0	38,021	5 4 2
489	4 11 9	35,010	4 15 11	531	5 0 1	052	5 4 3
520	4 11 10	040	4 16 0	561	5 0 2	082	5 4 4
550	4 11 11	071	4 16 1	592	5 0 3	113	5 4 5
580	4 12 0	101	4 16 2	622	5 0 4	143	5 4 6
611	4 12 1	132	4 16 3	653	5 0 5	173	5 4 7
641	4 12 2	162	4 16 4	683	5 0 6	204	5 4 8
672	4 12 3	193	4 16 5	713	5 0 7	234	5 4 9
702	4 12 4	223	4 16 6	744	5 0 8	265	5 4 10
733	4 12 5	253	4 16 7	774	5 0 9	295	5 4 11
763	4 12 6	284	4 16 8	805	5 0 10	325	5 5 0
793	4 12 7	314	4 16 9	835	5 0 11	356	5 5 1
824	4 12 8	345	4 16 10	865	5 1 0	386	5 5 2
854	4 12 9	375	4 16 11	896	5 1 1	417	5 5 3
885	4 12 10	405	4 17 0	926	5 1 2	447	5 5 4
915	4 12 11	436	4 17 1	957	5 1 3	478	5 5 5
945	4 13 0	466	4 17 2	987	5 1 4	508	5 5 6
976	4 13 1	497	4 17 3	37,018	5 1 5	538	5 5 7
34,006	4 13 2	527	4 17 4	048	5 1 6	569	5 5 8
037	4 13 3	558	4 17 5	078	5 1 7	599	5 5 9
067	4 13 4	588	4 17 6	109	5 1 8	629	5 5 10
098	4 13 5	618	4 17 7	139	5 1 9	660	5 5 11
128	4 13 6	649	4 17 8	170	5 1 10	690	5 6 0
158	4 13 7	679	4 17 9	200	5 1 11	721	5 6 1
189	4 13 8	710	4 17 10	230	5 2 0	751	5 6 2
219	4 13 9	740	4 17 11	261	5 2 1	782	5 6 3
250	4 13 10	770	4 18 0	291	5 2 2	812	5 6 4
280	4 13 11	801	4 18 1	322	5 2 3	843	5 6 5
310	4 14 0	831	4 18 2	352	5 2 4	873	5 6 6
341	4 14 1	862	4 18 3	383	5 2 5	903	5 6 7
371	4 14 2	892	4 18 4	413	5 2 6	934	5 6 8
402	4 14 3	923	4 18 5	443	5 2 7	964	5 6 9
432	4 14 4	953	4 18 6	474	5 2 8	995	5 6 10
463	4 14 5	983	4 18 7	504	5 2 9	39,025	5 6 11
493	4 14 6	36,014	4 18 8	535	5 2 10	055	5 7 0
523	4 14 7	044	4 18 9	565	5 2 11	086	5 7 1
554	4 14 8	075	4 18 10	595	5 3 0	116	5 7 2
584	4 14 9	105	4 18 11	626	5 3 1	147	5 7 3
615	4 14 10	135	4 19 0	656	5 3 2	177	5 7 4
645	4 14 11	166	4 19 1	687	5 3 3	208	5 7 5
675	4 15 0	196	4 19 2	717	5 3 4	238	5 7 6
706	4 15 1	227	4 19 3	748	5 3 5	268	5 7 7
736	4 15 2	257	4 19 4	778	5 3 6	299	5 7 8

Five per Cent.

Princ.	Interest £ s. d.	Princ.	Interest £ s. d.	Princ.	Interest £ s. d.	Princ.	Interest £ s. d.
£		£		£		£	
39,329	5 7 9	40,850	5 11 11	42,371	5 16 1	43,892	6 0 3
360	5 7 10	880	5 12 0	401	5 16 2	922	6 0 4
390	5 7 11	911	5 12 1	432	5 16 3	953	6 0 5
420	5 8 0	941	5 12 2	462	5 16 4	983	6 0 6
451	5 8 1	972	5 12 3	493	5 16 5	44,013	6 0 7
481	5 8 2	41,002	5 12 4	523	5 16 6	044	6 0 8
512	5 8 3	033	5 12 5	553	5 16 7	074	6 0 9
542	5 8 4	063	5 12 6	584	5 16 8	105	6 0 10
573	5 8 5	093	5 12 7	614	5 16 9	135	6 0 11
603	5 8 6	124	5 12 8	645	5 16 10	165	6 1 0
633	5 8 7	154	5 12 9	675	5 16 11	196	6 1 1
664	5 8 8	185	5 12 10	705	5 17 0	226	6 1 2
694	5 8 9	215	5 12 11	736	5 17 1	257	6 1 3
725	5 8 10	245	5 13 0	766	5 17 2	287	6 1 4
755	5 8 11	276	5 13 1	797	5 17 3	318	6 1 5
785	5 9 0	306	5 13 2	827	5 17 4	348	6 1 6
816	5 9 1	337	5 13 3	858	5 17 5	378	6 1 7
846	5 9 2	367	5 13 4	888	5 17 6	409	6 1 8
877	5 9 3	398	5 13 5	918	5 17 7	439	6 1 9
907	5 9 4	428	5 13 6	949	5 17 8	470	6 1 10
938	5 9 5	458	5 13 7	979	5 17 9	500	6 1 11
968	5 9 6	489	5 13 8	43,010	5 17 10	530	6 2 0
998	5 9 7	519	5 13 9	040	5 17 11	561	6 2 1
40,029	5 9 8	550	5 13 10	070	5 18 0	591	6 2 2
059	5 9 9	580	5 13 11	101	5 18 1	622	6 2 3
090	5 9 10	610	5 14 0	131	5 18 2	652	6 2 4
120	5 9 11	641	5 14 1	162	5 18 3	683	6 2 5
150	5 10 0	671	5 14 2	192	5 18 4	713	6 2 6
181	5 10 1	702	5 14 3	223	5 18 5	743	6 2 7
211	5 10 2	732	5 14 4	253	5 18 6	774	6 2 8
242	5 10 3	763	5 14 5	283	5 18 7	804	6 2 9
272	5 10 4	793	5 14 6	314	5 18 8	835	6 2 10
303	5 10 5	823	5 14 7	344	5 18 9	865	6 2 11
333	5 10 6	854	5 14 8	375	5 18 10	895	6 3 0
363	5 10 7	884	5 14 9	405	5 18 11	926	6 3 1
394	5 10 8	915	5 14 10	435	5 19 0	956	6 3 2
424	5 10 9	945	5 14 11	466	5 19 1	987	6 3 3
455	5 10 10	975	5 15 0	496	5 19 2	45,017	6 3 4
485	5 10 11	42,006	5 15 1	527	5 19 3	048	6 3 5
515	5 11 0	036	5 15 2	557	5 19 4	078	6 3 6
546	5 11 1	067	5 15 3	588	5 19 5	108	6 3 7
576	5 11 2	097	5 15 4	618	5 19 6	139	6 3 8
607	5 11 3	128	5 15 5	648	5 19 7	169	6 3 9
637	5 11 4	158	5 15 6	679	5 19 8	200	6 3 10
668	5 11 5	188	5 15 7	709	5 19 9	230	6 3 11
698	5 11 6	219	5 15 8	740	5 19 10	260	6 4 0
728	5 11 7	249	5 15 9	770	5 19 11	291	6 4 1
759	5 11 8	280	5 15 10	800	6 0 0	321	6 4 2
789	5 11 9	310	5 15 11	831	6 0 1	352	6 4 3
820	5 11 10	340	5 16 0	861	6 0 2	382	6 4 4

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
45,413	6 4 5	46,933	6 8 7	48,454	6 12 9	49,975	6 16 11
443	6 4 6	964	6 8 8	485	6 12 10	50,005	6 17 0
473	6 4 7	994	6 8 9	515	6 12 11	036	6 17 1
504	6 4 8	47,025	6 8 10	545	6 13 0	066	6 17 2
534	6 4 9	055	6 8 11	576	6 13 1	097	6 17 3
565	6 4 10	085	6 9 0	606	6 13 2	127	6 17 4
595	6 4 11	116	6 9 1	637	6 13 3	158	6 17 5
625	6 5 0	146	6 9 2	667	6 13 4	188	6 17 6
666	6 5 1	177	6 9 3	698	6 13 5	218	6 17 7
686	6 5 2	207	6 9 4	728	6 13 6	249	6 17 8
717	6 5 3	238	6 9 5	758	6 13 7	279	6 17 9
747	6 5 4	268	6 9 6	789	6 13 8	310	6 17 10
778	6 5 5	298	6 9 7	819	6 13 9	340	6 17 11
808	6 5 6	329	6 9 8	850	6 13 10	370	6 18 0
838	6 5 7	359	6 9 9	880	6 13 11	401	6 18 1
869	6 5 8	390	6 9 10	910	6 14 0	431	6 18 2
899	6 5 9	420	6 9 11	941	6 14 1	462	6 18 3
930	6 5 10	450	6 10 0	971	6 14 2	492	6 18 4
960	6 5 11	481	6 10 1	49,002	6 14 3	523	6 18 5
990	6 6 0	511	6 10 2	032	6 14 4	553	6 18 6
46,021	6 6 1	542	6 10 3	063	6 14 5	583	6 18 7
051	6 6 2	572	6 10 4	093	6 14 6	614	6 18 8
082	6 6 3	603	6 10 5	123	6 14 7	644	6 18 9
112	6 6 4	633	6 10 6	154	6 14 8	675	6 18 10
143	6 6 5	663	6 10 7	184	6 14 9	705	6 18 11
173	6 6 6	694	6 10 8	215	6 14 10	735	6 19 0
203	6 6 7	724	6 10 9	245	6 14 11	766	6 19 1
234	6 6 8	755	6 10 10	275	6 15 0	796	6 19 2
264	6 6 9	785	6 10 11	306	6 15 1	827	6 19 3
295	6 6 10	815	6 11 0	336	6 15 2	857	6 19 4
325	6 6 11	846	6 11 1	367	6 15 3	888	6 19 5
355	6 7 0	876	6 11 2	397	6 15 4	918	6 19 6
386	6 7 1	907	6 11 3	428	6 15 5	948	6 19 7
416	6 7 2	937	6 11 4	458	6 15 6	979	6 19 8
447	6 7 3	968	6 11 5	488	6 15 7	51,009	6 19 9
477	6 7 4	998	6 11 6	519	6 15 8	040	6 19 10
508	6 7 5	48,028	6 11 7	549	6 15 9	070	6 19 11
538	6 7 6	059	6 11 8	580	6 15 10	100	7 0 0
568	6 7 7	089	6 11 9	610	6 15 11	131	7 0 1
599	6 7 8	120	6 11 10	640	6 16 0	161	7 0 2
629	6 7 9	150	6 11 11	671	6 16 1	192	7 0 3
660	6 7 10	180	6 12 0	701	6 16 2	222	7 0 4
690	6 7 11	211	6 12 1	732	6 16 3	253	7 0 5
720	6 8 0	241	6 12 2	762	6 16 4	283	7 0 6
751	6 8 1	272	6 12 3	793	6 16 5	313	7 0 7
781	6 8 2	302	6 12 4	823	6 16 6	344	7 0 8
812	6 8 3	333	6 12 5	853	6 16 7	374	7 0 9
842	6 8 4	363	6 12 6	884	6 16 8	405	7 0 10
873	6 8 5	393	6 12 7	914	6 16 9	435	7 0 11
903	6 8 6	424	6 12 8	945	6 16 10	465	7 1 0

Five per Cent.

Princ.	Interest	Princ.	Interest	Princ.	Interest	Princ.	Interest
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
51,496	7 1 1	53,017	7 5 3	54,538	7 9 5	56,058	7 13 7
526	7 1 2	047	7 5 4	568	7 9 6	089	7 13 8
557	7 1 3	078	7 5 5	598	7 9 7	119	7 13 9
587	7 1 4	108	7 5 6	629	7 9 8	150	7 13 10
618	7 1 5	138	7 5 7	659	7 9 9	180	7 13 11
648	7 1 6	169	7 5 8	690	7 9 10	210	7 14 0
678	7 1 7	199	7 5 9	720	7 9 11	241	7 14 1
709	7 1 8	230	7 5 10	750	7 10 0	271	7 14 2
739	7 1 9	260	7 5 11	781	7 10 1	302	7 14 3
770	7 1 10	290	7 6 0	811	7 10 2	332	7 14 4
800	7 1 11	321	7 6 1	842	7 10 3	363	7 14 5
831	7 2 0	351	7 6 2	872	7 10 4	393	7 14 6
861	7 2 1	382	7 6 3	903	7 10 5	423	7 14 7
891	7 2 2	412	7 6 4	933	7 10 6	454	7 14 8
922	7 2 3	443	7 6 5	963	7 10 7	484	7 14 9
952	7 2 4	473	7 6 6	994	7 10 8	515	7 14 10
983	7 2 5	503	7 6 7	55,024	7 10 9	545	7 14 11
52,013	7 2 6	534	7 6 8	055	7 10 10	575	7 15 0
043	7 2 7	564	7 6 9	085	7 10 11	606	7 15 1
074	7 2 8	595	7 6 10	115	7 11 0	636	7 15 2
104	7 2 9	625	7 6 11	146	7 11 1	667	7 15 3
135	7 2 10	655	7 7 0	176	7 11 2	697	7 15 4
165	7 2 11	686	7 7 1	207	7 11 3	728	7 15 5
195	7 3 0	716	7 7 2	237	7 11 4	758	7 15 6
226	7 3 1	747	7 7 3	268	7 11 5	788	7 15 7
256	7 3 2	777	7 7 4	298	7 11 6	819	7 15 8
287	7 3 3	808	7 7 5	328	7 11 7	849	7 15 9
317	7 3 4	838	7 7 6	359	7 11 8	880	7 15 10
348	7 3 5	868	7 7 7	389	7 11 9	910	7 15 11
378	7 3 6	899	7 7 8	420	7 11 10	940	7 16 0
408	7 3 7	929	7 7 9	450	7 11 11	971	7 16 1
439	7 3 8	960	7 7 10	480	7 12 0	57,001	7 16 2
469	7 3 9	990	7 7 11	511	7 12 1	032	7 16 3
500	7 3 10	54,020	7 8 0	541	7 12 2	062	7 16 4
530	7 3 11	051	7 8 1	572	7 12 3	093	7 16 5
560	7 4 0	081	7 8 2	602	7 12 4	123	7 16 6
591	7 4 1	112	7 8 3	633	7 12 5	153	7 16 7
621	7 4 2	142	7 8 4	663	7 12 6	184	7 16 8
652	7 4 3	173	7 8 5	693	7 12 7	214	7 16 9
682	7 4 4	203	7 8 6	724	7 12 8	245	7 16 10
713	7 4 5	233	7 8 7	754	7 12 9	275	7 16 11
743	7 4 6	264	7 8 8	785	7 12 10	305	7 17 0
773	7 4 7	294	7 8 9	815	7 12 11	336	7 17 1
804	7 4 8	325	7 8 10	845	7 13 0	366	7 17 2
834	7 4 9	355	7 8 11	876	7 13 1	397	7 17 3
865	7 4 10	385	7 9 0	906	7 13 2	427	7 17 4
895	7 4 11	416	7 9 1	937	7 13 3	458	7 17 5
925	7 5 0	446	7 9 2	967	7 13 4	488	7 17 6
956	7 5 1	477	7 9 3			518	7 17 7
986	7 5 2	507	7 9 4	56,028	7 13 6	549	7 17 8

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
57,579	7 17 9	59,100	8 1 11	60,621	8 6 1	62,142	8 10 3
610	7 17 10	130	8 2 0	651	8 6 2	172	8 10 4
640	7 17 11	161	8 2 1	682	8 6 3	203	8 10 5
670	7 18 0	191	8 2 2	712	8 6 4	233	8 10 6
701	7 18 1	222	8 2 3	743	8 6 5	263	8 10 7
731	7 18 2	252	8 2 4	773	8 6 6	294	8 10 8
762	7 18 3	283	8 2 5	803	8 6 7	324	8 10 9
792	7 18 4	313	8 2 6	834	8 6 8	355	8 10 10
823	7 18 5	343	8 2 7	864	8 6 9	385	8 10 11
853	7 18 6	374	8 2 8	895	8 6 10	415	8 11 0
883	7 18 7	404	8 2 9	925	8 6 11	446	8 11 1
914	7 18 8	435	8 2 10	955	8 7 0	476	8 11 2
944	7 18 9	465	8 2 11	986	8 7 1	507	8 11 3
975	7 18 10	495	8 3 0	61,016	8 7 2	537	8 11 4
58,005	7 18 11	526	8 3 1	047	8 7 3	568	8 11 5
035	7 19 0	556	8 3 2	077	8 7 4	598	8 11 6
066	7 19 1	587	8 3 3	108	8 7 5	628	8 11 7
096	7 19 2	617	8 3 4	138	8 7 6	659	8 11 8
127	7 19 3	648	8 3 5	168	8 7 7	689	8 11 9
157	7 19 4	678	8 3 6	199	8 7 8	720	8 11 10
188	7 19 5	708	8 3 7	229	8 7 9	750	8 11 11
218	7 19 6	739	8 3 8	260	8 7 10	780	8 12 0
248	7 19 7	769	8 3 9	290	8 7 11	811	8 12 1
279	7 19 8	800	8 3 10	320	8 8 0	841	8 12 2
309	7 19 9	830	8 3 11	351	8 8 1	872	8 12 3
340	7 19 10	860	8 4 0	381	8 8 2	902	8 12 4
370	7 19 11	891	8 4 1	412	8 8 3	933	8 12 5
400	8 0 0	921	8 4 2	442	8 8 4	963	8 12 6
431	8 0 1	952	8 4 3	473	8 8 5	993	8 12 7
461	8 0 2	982	8 4 4	503	8 8 6	63,024	8 12 8
492	8 0 3	60,013	8 4 5	533	8 8 7	054	8 12 9
522	8 0 4	043	8 4 6	564	8 8 8	085	8 12 10
553	8 0 5	073	8 4 7	594	8 8 9	115	8 12 11
583	8 0 6	104	8 4 8	625	8 8 10	145	8 13 0
613	8 0 7	134	8 4 9	655	8 8 11	176	8 13 1
644	8 0 8	165	8 4 10	685	8 9 0	206	8 13 2
674	8 0 9	195	8 4 11	716	8 9 1	237	8 13 3
705	8 0 10	225	8 5 0	746	8 9 2	267	8 13 4
735	8 0 11	256	8 5 1	777	8 9 3	298	8 13 5
765	8 1 0	286	8 5 2	807	8 9 4	328	8 13 6
796	8 1 1	317	8 5 3	838	8 9 5	358	8 13 7
826	8 1 2	347	8 5 4	868	8 9 6	389	8 13 8
857	8 1 3	378	8 5 5	898	8 9 7	419	8 13 9
887	8 1 4	408	8 5 6	929	8 9 8	450	8 13 10
918	8 1 5	438	8 5 7	959	8 9 9	480	8 13 11
948	8 1 6	469	8 5 8	990	8 9 10	510	8 14 0
978	8 1 7	499	8 5 9	62,020	8 9 11	541	8 14 1
59,009	8 1 8	530	8 5 10	050	8 10 0	571	8 14 2
039	8 1 9	560	8 5 11	081	8 10 1	602	8 14 3
070	8 1 10	590	8 6 0	111	8 10 2	632	8 14 4

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
63,663	8 14 5	65,183	8 18 7	66,704	9 2 9	68,225	9 6 11
693	8 14 6	214	8 18 8	735	9 2 10	255	9 7 0
723	8 14 7	244	8 18 9	766	9 2 11	286	9 7 1
754	8 14 8	275	8 18 10	795	9 3 0	316	9 7 2
784	8 14 9	305	8 18 11	826	9 3 1	347	9 7 3
815	8 14 10	335	8 19 0	856	9 3 2	377	9 7 4
845	8 14 11	366	8 19 1	887	9 3 3	408	9 7 5
875	8 15 0	396	8 19 2	917	9 3 4	438	9 7 6
906	8 15 1	427	8 19 3	948	9 3 5	468	9 7 7
936	8 15 2	457	8 19 4	978	9 3 6	499	9 7 8
967	8 15 3	488	8 19 5	67,008	9 3 7	529	9 7 9
997	8 15 4	518	8 19 6	039	9 3 8	560	9 7 10
64,028	8 15 5	548	8 19 7	069	9 3 9	590	9 7 11
058	8 15 6	579	8 19 8	100	9 3 10	620	9 8 0
088	8 15 7	609	8 19 9	130	9 3 11	651	9 8 1
119	8 15 8	640	8 19 10	160	9 4 0	681	9 8 2
149	8 15 9	670	8 19 11	191	9 4 1	712	9 8 3
180	8 15 10	700	9 0 0	221	9 4 2	742	9 8 4
210	8 15 11	731	9 0 1	252	9 4 3	773	9 8 5
240	8 16 0	761	9 0 2	282	9 4 4	803	9 8 6
271	8 16 1	792	9 0 3	313	9 4 5	833	9 8 7
301	8 16 2	822	9 0 4	343	9 4 6	864	9 8 8
332	8 16 3	853	9 0 5	373	9 4 7	894	9 8 9
362	8 16 4	883	9 0 6	404	9 4 8	925	9 8 10
393	8 16 5	913	9 0 7	434	9 4 9	955	9 8 11
423	8 16 6	944	9 0 8	464	9 4 10	985	9 9 0
453	8 16 7	974	9 0 9	495	9 4 11	69,016	9 9 1
484	8 16 8	66,005	9 0 10	525	9 5 0	046	9 9 2
514	8 16 9	035	9 0 11	556	9 5 1	077	9 9 3
545	8 16 10	065	9 1 0	586	9 5 2	107	9 9 4
575	8 16 11	096	9 1 1	617	9 5 3	138	9 9 5
605	8 17 0	126	9 1 2	647	9 5 4	168	9 9 6
636	8 17 1	157	9 1 3	678	9 5 5	198	9 9 7
666	8 17 2	187	9 1 4	708	9 5 6	229	9 9 8
697	8 17 3	218	9 1 5	738	9 5 7	259	9 9 9
727	8 17 4	248	9 1 6	769	9 5 8	290	9 9 10
758	8 17 5	278	9 1 7	799	9 5 9	320	9 9 11
788	8 17 6	309	9 1 8	830	9 5 10	350	9 10 0
818	8 17 7	339	9 1 9	860	9 5 11	381	9 10 1
849	8 17 8	370	9 1 10	890	9 6 0	411	9 10 2
879	8 17 9	400	9 1 11	921	9 6 1	442	9 10 3
910	8 17 10	430	9 2 0	951	9 6 2	472	9 10 4
940	8 17 11	461	9 2 1	982	9 6 3	503	9 10 5
970	8 18 0	491	9 2 2	68,012	9 6 4	533	9 10 6
65,001	8 18 1	522	9 2 3	043	9 6 5	563	9 10 7
031	8 18 2	552	9 2 4	073	9 6 6	594	9 10 8
062	8 18 3	583	9 2 5	103	9 6 7	624	9 10 9
092	8 18 4	613	9 2 6	134	9 6 8	655	9 10 10
123	8 18 5	643	9 2 7	164	9 6 9	685	9 10 11
153	8 18 6	674	9 2 8	195	9 6 10	715	9 11 0

Five per Cent.

Princ.	£	s.	d.	Princ.	£	s.	d.	Princ.	£	s.	d.	Princ.	£	s.	d.
69,746	9	11	1	71,267	9	15	3	72,788	9	19	5	74,308	10	3	7
776	9	11	2	297	9	15	4	818	9	19	6	339	10	3	8
807	9	11	3	328	9	15	5	848	9	19	7	369	10	3	9
837	9	11	4	358	9	15	6	879	9	19	8	400	10	3	10
868	9	11	5	388	9	15	7	910	9	19	9	430	10	3	11
898	9	11	6	419	9	15	8	940	9	19	10	460	10	4	0
928	9	11	7	449	9	15	9	970	9	19	11	491	10	4	1
959	9	11	8	480	9	15	10	73,000	10	0	0	521	10	4	2
989	9	11	9	510	9	15	11	031	10	0	1	552	10	4	3
70,020	9	11	10	540	9	16	0	061	10	0	2	582	10	4	4
050	9	11	11	571	9	16	1	092	10	0	3	613	10	4	5
080	9	12	0	601	9	16	2	122	10	0	4	643	10	4	6
111	9	12	1	632	9	16	3	153	10	0	5	673	10	4	7
141	9	12	2	662	9	16	4	183	10	0	6	704	10	4	8
172	9	12	3	693	9	16	5	213	10	0	7	734	10	4	9
202	9	12	4	723	9	16	6	244	10	0	8	765	10	4	10
233	9	12	5	753	9	16	7	274	10	0	9	795	10	4	11
263	9	12	6	784	9	16	8	305	10	0	10	825	10	5	0
293	9	12	7	814	9	16	9	335	10	0	11	856	10	5	1
324	9	12	8	845	9	16	10	365	10	1	0	886	10	5	2
354	9	12	9	875	9	16	11	396	10	1	1	917	10	5	3
385	9	12	10	905	9	17	0	426	10	1	2	947	10	5	4
415	9	12	11	936	9	17	1	457	10	1	3	978	10	5	5
445	9	13	0	966	9	17	2	487	10	1	4	75,008	10	5	6
476	9	13	1	997	9	17	3	518	10	1	5	038	10	5	7
506	9	13	2	72,027	9	17	4	548	10	1	6	068	10	5	8
537	9	13	3	058	9	17	5	578	10	1	7	099	10	5	9
567	9	13	4	088	9	17	6	609	10	1	8	130	10	5	10
598	9	13	5	118	9	17	7	639	10	1	9	160	10	5	11
628	9	13	6	149	9	17	8	670	10	1	10	190	10	6	0
658	9	13	7	179	9	17	9	700	10	1	11	221	10	6	1
689	9	13	8	210	9	17	10	730	10	2	0	251	10	6	2
719	9	13	9	240	9	17	11	761	10	2	1	282	10	6	3
750	9	13	10	270	9	18	0	791	10	2	2	312	10	6	4
780	9	13	11	301	9	18	1	822	10	2	3	343	10	6	5
810	9	14	0	331	9	18	2	852	10	2	4	373	10	6	6
841	9	14	1	362	9	18	3	883	10	2	5	403	10	6	7
871	9	14	2	392	9	18	4	913	10	2	6	434	10	6	8
902	9	14	3	423	9	18	5	943	10	2	7	464	10	6	9
932	9	14	4	453	9	18	6	974	10	2	8	495	10	6	10
963	9	14	5	483	9	18	7	74,004	10	2	9	525	10	6	11
993	9	14	6	514	9	18	8	035	10	2	10	555	10	7	0
71,023	9	14	7	544	9	18	9	065	10	2	11	586	10	7	1
054	9	14	8	575	9	18	10	095	10	3	0	616	10	7	2
084	9	14	9	605	9	18	11	126	10	3	1	647	10	7	3
115	9	14	10	635	9	19	0	156	10	3	2	677	10	7	4
145	9	14	11	666	9	19	1	187	10	3	3	708	10	7	5
175	9	15	0	696	9	19	2	217	10	3	4	738	10	7	6
206	9	15	1	727	9	19	3	248	10	3	5	768	10	7	7
236	9	15	2	757	9	19	4	278	10	3	6	799	10	7	8

Five per Cent.

Princ.	Interest	Princ.	Interest	Princ.	Interest	Princ.	Interest
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
75,829	10 7 9	77,350	10 11 11	78,871	10 16 1	80,392	11 0 3
860	10 7 11	380	10 12 0	901	10 16 2	422	11 0 4
890	10 7 11	411	10 12 1	932	10 16 3	453	11 0 5
920	10 8 0	441	10 12 2	962	10 16 4	483	11 0 6
951	10 8 1	472	10 12 3	993	10 16 5	513	11 0 7
981	10 8 2	502	10 12 4	79,023	10 16 6	544	11 0 8
76,012	10 8 3	533	10 12 5	053	10 16 7	574	11 0 9
042	10 8 4	563	10 12 6	084	10 16 8	605	11 0 10
073	10 8 5	593	10 12 7	114	10 16 9	635	11 0 11
103	10 8 6	624	10 12 8	145	10 16 10	666	11 1 0
133	10 8 7	654	10 12 9	175	10 16 11	696	11 1 1
164	10 8 8	685	10 12 10	206	10 17 0	726	11 1 2
194	10 8 9	715	10 12 11	236	10 17 1	757	11 1 3
225	10 8 10	745	10 13 0	266	10 17 2	787	11 1 4
255	10 8 11	776	10 13 1	297	10 17 3	818	11 1 5
285	10 9 0	806	10 13 2	327	10 17 4	848	11 1 6
316	10 9 1	837	10 13 3	358	10 17 5	878	11 1 7
346	10 9 2	867	10 13 4	388	10 17 6	909	11 1 8
377	10 9 3	898	10 13 5	418	10 17 7	939	11 1 9
407	10 9 4	928	10 13 6	449	10 17 8	970	11 1 10
438	10 9 5	958	10 13 7	479	10 17 9	81,000	11 1 11
468	10 9 6	989	10 13 8	510	10 17 10	030	11 2 0
498	10 9 7	78,019	10 13 9	540	10 17 11	061	11 2 1
529	10 9 8	050	10 13 10	570	10 18 0	091	11 2 2
559	10 9 9	080	10 13 11	601	10 18 1	122	11 2 3
590	10 9 10	110	10 14 0	631	10 18 2	152	11 2 4
620	10 9 11	141	10 14 1	662	10 18 3	183	11 2 5
650	10 10 0	171	10 14 2	692	10 18 4	213	11 2 6
681	10 10 1	202	10 14 3	723	10 18 5	243	11 2 7
711	10 10 2	232	10 14 4	753	10 18 6	274	11 2 8
742	10 10 3	263	10 14 5	783	10 18 7	304	11 2 9
772	10 10 4	293	10 14 6	814	10 18 8	335	11 2 10
803	10 10 5	323	10 14 7	844	10 18 9	365	11 2 11
833	10 10 6	354	10 14 8	875	10 18 10	395	11 3 0
863	10 10 7	384	10 14 9	905	10 18 11	426	11 3 1
894	10 10 8	415	10 14 10	935	10 19 0	456	11 3 2
924	10 10 9	445	10 14 11	966	10 19 1	487	11 3 3
955	10 10 10	475	10 15 0	996	10 19 2	517	11 3 4
985	10 10 11	506	10 15 1	80,027	10 19 3	548	11 3 5
77,015	10 11 0	536	10 15 2	057	10 19 4	578 ¹*	11 3 6
046	10 11 1	567	10 15 3	088	10 19 5	608	11 3 7
076	10 11 2	597	10 15 4	118	10 19 6	639	11 3 8
107	10 11 3	628	10 15 5	148	10 19 7	669	11 3 9
137	10 11 4	658	10 15 6	179	10 19 8	699	11 3 10
168	10 11 5	688	10 15 7	209	10 19 9	730	11 3 11
198	10 11 6	719	10 15 8	240	10 19 10	760	11 4 0
228	10 11 7	749	10 15 9	270	10 19 11	791	11 4 1
259	10 11 8	780	10 15 10	300	11 0 0	821	11 4 2
289	10 11 9	810	10 15 11	331	11 0 1	852	11 4 3
320	10 11 10	840	10 16 0	361	11 0 2	882	11 4 4

E

Fire per Cent.

Princ. (£)	Interest (£ s. d.)	Princ. (£)	Interest (£ s. d.)	Princ. (£)	Interest (£ s. d.)	Princ. (£)	Interest (£ s. d.)
81,913	11 4 5	83,433	11 8 7	84,954	11 12 9	86,475	11 16 11
943	11 4 6	464	11 8 8	985	11 12 10	505	11 17 0
973	11 4 7	494	11 8 9	85,015	11 12 11	536	11 17 1
82,004	11 4 8	525	11 8 10	045	11 13 0	566	11 17 2
034	11 4 9	555	11 8 11	076	11 13 1	597	11 17 3
065	11 4 10	585	11 9 0	106	11 13 2	627	11 17 4
095	11 4 11	616	11 9 1	137	11 13 3	658	11 17 5
125	11 5 0	646	11 9 2	167	11 13 4	688	11 17 6
156	11 5 1	677	11 9 3	198	11 13 5	718	11 17 7
186	11 5 2	707	11 9 4	228	11 13 6	749	11 17 8
217	11 5 3	738	11 9 5	258	11 13 7	779	11 17 9
247	11 5 4	768	11 9 6	289	11 13 8	810	11 17 10
278	11 5 5	798	11 9 7	319	11 13 9	840	11 17 11
308	11 5 6	829	11 9 8	350	11 13 10	870	11 18 0
338	11 5 7	859	11 9 9	380	11 13 11	901	11 18 1
369	11 5 8	890	11 9 10	410	11 14 0	931	11 18 2
399	11 5 9	920	11 9 11	441	11 14 1	961	11 18 3
430	11 5 10	950	11 10 0	471	11 14 2	992	11 18 4
460	11 5 11	981	11 10 1	502	11 14 3	87,023	11 18 5
490	11 6 0	84,011	11 10 2	532	11 14 4	053	11 18 6
521	11 6 1	042	11 10 3	563	11 14 5	083	11 18 7
551	11 6 2	072	11 10 4	593	11 14 6	114	11 18 8
582	11 6 3	103	11 10 5	623	11 14 7	144	11 18 9
612	11 6 4	133	11 10 6	654	11 14 8	175	11 18 10
643	11 6 5	163	11 10 7	684	11 14 9	205	11 18 11
673	11 6 6	194	11 10 8	715	11 14 10	235	11 19 0
703	11 6 7	224	11 10 9	745	11 14 11	266	11 19 1
734	11 6 8	255	11 10 10	775	11 15 0	296	11 19 2
764	11 6 9	285	11 10 11	806	11 15 1	327	11 19 3
795	11 6 10	315	11 11 0	836	11 15 2	357	11 19 4
825	11 6 11	346	11 11 1	867	11 15 3	388	11 19 5
825	11 7 0	376	11 11 2	897	11 15 4	418	11 19 6
886	11 7 1	407	11 11 3	928	11 15 5	448	11 19 7
916	11 7 2	437	11 11 4	958	11 15 6	479	11 19 8
947	11 7 3	468	11 11 5	988	11 15 7	509	11 19 9
977	11 7 4	498	11 11 6	86,019	11 15 8	540	11 19 10
83,008	11 7 5	528	11 11 7	049	11 15 9	570	11 19 11
038	11 7 6	559	11 11 8	080	11 15 10	600	12 0 0
068	11 7 7	589	11 11 9	110	11 15 11	631	12 0 1
099	11 7 8	620	11 11 10	140	11 16 0	661	12 0 2
129	11 7 9	650	11 11 11	171	11 16 1	692	12 0 3
160	11 7 10	680	11 12 0	201	11 16 2	722	12 0 4
190	11 7 11	711	11 12 1	232	11 16 3	753	12 0 5
220	11 8 0	741	11 12 2	262	11 16 4	783	12 0 6
251	11 8 1	772	11 12 3	293	11 16 5	813	12 0 7
281	11 8 2	802	11 12 4	323	11 16 6	844	12 0 8
312	11 8 3	833	11 12 5	353	11 16 7	874	12 0 9
342	11 8 4	863	11 12 6	384	11 16 8	905	12 0 10
373	11 8 5	893	11 12 7	414	11 16 9	935	12 0 11
403	11 8 6	924	11 12 8	445	11 16 10	965	12 1 0

Five per Cent.

Prince.	Interest.			Prince.	Interest.			Prince.	Interest.			Prince.	Interest.		
£	£	s.	d.	£	£	s.	d.	£	£	s.	d.	£	£	s.	d.
87,996	12	1	2	89,517	12	5	3	91,038	12	9	5	92,558	12	13	7
88,026	12	1	2	547	12	5	4	068	12	9	6	589	12	13	8
057	12	1	3	578	12	5	5	098	12	9	7	619	12	13	9
087	12	1	4	608	12	5	6	129	12	9	8	650	12	13	10
118	12	1	5	638	12	5	7	159	12	9	9	680	12	13	11
148	12	1	6	669	12	5	8	190	12	9	10	710	12	14	0
178	12	1	7	699	12	5	9	220	12	9	11	741	12	14	1
209	12	1	8	730	12	5	10	250	12	10	0	771	12	14	2
239	12	1	9	760	12	5	11	281	12	10	1	802	12	14	3
270	12	1	10	790	12	6	0	311	12	10	2	832	12	14	4
300	12	1	11	821	12	6	1	342	12	10	3	863	12	14	5
330	12	2	0	851	12	6	2	372	12	10	4	893	12	14	6
361	12	2	1	882	12	6	3	403	12	10	5	923	12	14	7
391	12	2	2	912	12	6	4	433	12	10	6	954	12	14	8
422	12	2	3	943	12	6	5	463	12	10	7	984	12	14	9
452	12	2	4	973	12	6	6	494	12	10	8	93,015	12	14	10
483	12	2	5	90,003	12	6	7	524	12	10	9	045	12	14	11
513	12	2	6	034	12	6	8	555	12	10	10	075	12	15	0
543	12	2	7	064	12	6	9	585	12	10	11	106	12	15	1
574	12	2	8	095	12	6	10	615	12	11	0	136	12	15	2
604	12	2	9	125	12	6	11	646	12	11	1	167	12	15	3
635	12	2	10	155	12	7	0	676	12	11	2	197	12	15	4
666	12	2	11	186	12	7	1	707	12	11	3	228	12	15	5
695	12	3	0	216	12	7	2	737	12	11	4	258	12	15	6
726	12	3	1	247	12	7	3	768	12	11	5	288	12	15	7
746	12	3	2	277	12	7	4	798	12	11	6	319	12	15	8
787	12	3	3	308	12	7	5	828	12	11	7	349	12	15	9
817	12	3	4	338	12	7	6	859	12	11	8	380	12	15	10
848	12	3	5	368	12	7	7	889	12	11	9	410	12	15	11
878	12	3	6	399	12	7	8	920	12	11	10	440	12	16	0
908	12	3	7	429	12	7	9	950	12	11	11	471	12	16	1
939	12	3	8	460	12	7	10	980	12	12	0	501	12	16	2
968	12	3	9	490	12	7	11	92,011	12	12	1	532	12	16	3
89,000	12	3	10	520	12	8	0	041	12	12	2	562	12	16	4
030	12	3	11	551	12	8	1	072	12	12	3	593	12	16	5
060	12	4	0	581	12	8	2	102	12	12	4	623	12	16	6
091	12	4	1	612	12	8	3	133	12	12	5	653	12	16	7
121	12	4	2	642	12	8	4	163	12	12	6	684	12	16	8
152	12	4	3	673	12	8	5	193	12	12	7	714	12	16	9
182	12	4	4	703	12	8	6	224	12	12	8	745	12	16	10
213	12	4	5	733	12	8	7	254	12	12	9	775	12	16	11
243	12	4	6	764	12	8	8	285	12	12	10	805	12	17	0
273	12	4	7	794	12	8	9	315	12	12	11	836	12	17	1
304	12	4	8	825	12	8	10	345	12	13	0	866	12	17	2
334	12	4	9	855	12	8	11	376	12	13	1	897	12	17	3
365	12	4	10	885	12	9	0	406	12	13	2	927	12	17	4
395	12	4	11	916	12	9	1	437	12	13	3	958	12	17	5
425	12	5	0	946	12	9	2	467	12	13	4	988	12	17	6
456	12	5	1	977	12	9	3	498	12	13	5	94,018	12	17	7
486	12	5	2	91,007	12	9	4	528	12	13	6	049	12	17	8

Five per Cent.

Princ.	Interest.	Princ.	Interest.	Princ.	Interest.	Princ.	Interest.
£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
94,079	12 17 9	95,600	13 1 11	97,121	13 6 1	98,642	13 10 3
110	12 17 10	630	13 2 0	151	13 6 2	672	13 10 4
140	12 17 11	661	13 2 1	182	13 6 3	703	13 10 5
170	12 18 0	691	13 2 2	212	13 6 4	733	13 10 6
201	12 18 1	722	13 2 3	243	13 6 5	763	13 10 7
231	12 18 2	752	13 2 4	273	13 6 6	794	13 10 8
262	12 18 3	783	13 2 5	303	13 6 7	824	13 10 9
292	12 18 4	813	13 2 6	334	13 6 8	855	13 10 10
323	12 18 5	843	13 2 7	364	13 6 9	885	13 10 11
353	12 18 6	874	13 2 8	395	13 6 10	915	13 11 0
383	12 18 7	904	13 2 9	425	13 6 11	946	13 11 1
414	12 18 8	935	13 2 10	455	13 7 0	976	13 11 2
444	12 18 9	965	13 2 11	486	13 7 1	99,007	13 11 3
475	12 18 10	995	13 3 0	516	13 7 2	037	13 11 4
505	12 18 11	96,026	13 3 1	547	13 7 3	068	13 11 5
535	12 19 0	056	13 3 2	577	13 7 4	098	13 11 6
566	12 19 1	087	13 3 3	608	13 7 5	128	13 11 7
596	12 19 2	117	13 3 4	638	13 7 6	159	13 11 8
627	12 19 3	148	13 3 5	668	13 7 7	189	13 11 9
657	12 19 4	178	13 3 6	699	13 7 8	220	13 11 10
688	12 19 5	208	13 3 7	729	13 7 9	250	13 11 11
718	12 19 6	239	13 3 8	760	13 7 10	280	13 12 0
748	12 19 7	269	13 3 9	790	13 7 11	311	13 12 1
779	12 19 8	300	13 3 10	820	13 8 0	341	13 12 2
809	12 19 9	330	13 3 11	851	13 8 1	372	13 12 3
840	12 19 10	360	13 4 0	881	13 8 2	402	13 12 4
870	12 19 11	391	13 4 1	912	13 8 3	433	13 12 5
901	13 0 0	421	13 4 2	942	13 8 4	463	13 12 6
931	13 0 1	452	13 4 3	973	13 8 5	493	13 12 7
961	13 0 2	482	13 4 4	98,003	13 8 6	524	13 12 8
992	13 0 3	513	13 4 5	033	13 8 7	554	13 12 9
95,022	13 0 4	543	13 4 6	064	13 8 8	585	13 12 10
053	13 0 5	573	13 4 7	094	13 8 9	615	13 12 11
083	13 0 6	604	13 4 8	125	13 8 10	645	13 13 0
113	13 0 7	634	13 4 9	155	13 8 11	676	13 13 1
144	13 0 8	665	13 4 10	186	13 9 0	706	13 13 2
174	13 0 9	695	13 4 11	216	13 9 1	737	13 13 3
205	13 0 10	725	13 5 0	246	13 9 2	767	13 13 4
235	13 0 11	756	13 5 1	277	13 9 3	798	13 13 5
265	13 1 0	786	13 5 2	307	13 9 4	828	13 13 6
296	13 1 1	817	13 5 3	338	13 9 5	858	13 13 7
326	13 1 2	847	13 5 4	368	13 9 6	889	13 13 8
357	13 1 3	878	13 5 5	398	13 9 7	919	13 13 9
387	13 1 4	908	13 5 6	429	13 9 8	950	13 13 10
418	13 1 5	938	13 5 7	459	13 9 9	980	13 13 11
448	13 1 6	969	13 5 8	490	13 9 10	100,010	13 14 0
478	13 1 7	999	13 5 9	520	13 9 11		
509	13 1 8	97,030	13 5 10	551	13 10 0		
539	13 1 9	060	13 5 11	581	13 10 1		
570	13 1 10	090	13 6 0	611	13 10 2		

Five per Cent.

Principal.	Interest.			Principal.	Interest.		
£	£	s.	d.	£	£	s.	d.
100,000	13	13	11½	1,100,000	150	13	8¼
200,000	27	7	11½	1,200,000	164	7	8
300,000	41	1	11	1,300,000	178	1	7½
400,000	54	15	10½	1,400,000	191	15	7¼
500,000	68	9	10¼	1,500,000	205	9	7
600,000	82	3	10	1,600,000	219	3	6½
700,000	95	17	9½	1,700,000	232	17	6¼
800,000	109	11	9¼	1,800,000	246	11	6
900,000	123	5	9	1,900,000	260	5	5¾
1,000,000	136	19	8½	2,000,000	273	19	5½

THE END.
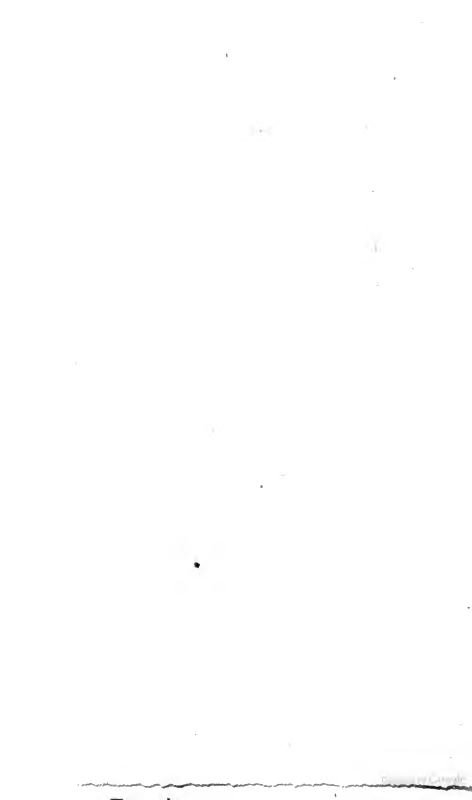
ELEMENTS OF MECHANISM

THE SCIENTIFIC PRINCIPLES

OF

THE PRACTICAL CONSTRUCTION OF MACHINES.

FOR THE

USE OF SCHOOLS AND STUDENTS IN MECHANICAL ENGINEERING

WITH

NUMEROUS SPECIMENS OF MODERN MACHINES,

REMARKABLE FOR THEIR UTILITY AND INGENUITY.

BY T. BAKER, C.E.,

Author of "Railway Engineering," "Land and Engineering Surveying,"
"Mensuration," "Principles and Practice of Statics and Dynamics,"
"Integration of Differentials," &c. &c.

ILLUSTRATED BY TWO HUNDRED AND FORTY-THREE ENGRAVINGS.

Price 2s.

MR. WEALE'S NEW SERIES OF RUDIMENTARY WORKS FOR BEGINNERS.

MR. WEALE has prepared for publication, in a neat and convenient size, a Series of original and useful Volumes, by the most esteemed writers, forming a Rudimentary Course for the easy comprehension of the leading principles of various Sciences.

It has been remarked that "those who are in the ship of Science ought to remember that the disciples cannot arrive without the aid of boats." Popular treatises are to Science what boats are to large ships; they assist people in getting aboard; but as no one would trust himself to a weak or inefficient boat, so no one ought to begin the study of Science with an imperfect guide. It sometimes happens that popular treatises are made to appear easy by the omission of those very details which are most essential to be known: they state results without going through the necessary processes by which those results are gained: they deal largely in facts, and leave principles untouched.

The only method of avoiding this error is to confide to men, who are masters of their respective subjects, the task of drawing up Popular Introductions to the several branches of Science. The Publisher trusts that the following list of names will be a sufficient guarantee to the Public that what he proposes to attempt in the cause of Popular Instruction will be done well, and that these little treatises will fully answer the purpose for which they are intended, namely, to become convenient and accurate Guide-Books in Government and other Schools, and in Popular Institutions generally, while their low price will place them within the reach of all classes earning their daily bread, to many of whom a knowledge of the elements of Science is a positive gain in the common pursuits of life, as well as a means of winning from gross tastes, and presenting to the mind noble and worthy objects of study.

The First Series is comprised in Fifteen Volumes, several of which are amply illustrated, price 15s. complete in demy 12mo, each neatly bound in cloth; and, for the convenience of purchasers, the several Subjects are published separately at the following prices:—

	Vol.	Price.
RUDIMENTARY CHEMISTRY, by Professor Fownes, F.R.S., &c., third edition, and on AGRICULTURAL CHEMISTRY, for the use of Farmers	1	1s.
———— NATURAL PHILOSOPHY, by Chas. Tomlinson	2	1s.
———— GEOLOGY, by Lieut.-Col. Portlock, R.E., F.R.S., F.G.S., &c.	3	1s.
———— MINERALOGY, by D. Varley, Author of "Conversations on Mineralogy," second edition, vol. i.	4	1s.
———— ———— vol. ii.	5	1s.
———— MECHANICS, by Chas. Tomlinson	6	1s.
———— ELECTRICITY, by Sir Wm. Snow Harris, F.R.S., &c.	7	1s.
———— PNEUMATICS, by Chas. Tomlinson	8	1s.
———— CIVIL ENGINEERING, by Henry Law, C.E., vol. i.	9	1s.
———— ———— vol. ii.	10	1s.

CATALOGUE

OF

RUDIMENTARY,

EDUCATIONAL, SCIENTIFIC, AND CLASSICAL

WORKS

FOR

COLLEGES, HIGH AND ORDINARY SCHOOLS, AND SELF-INSTRUCTION;

TOGETHER WITH

A LIST OF WORKS ON PRACTICAL SCIENCE.

DESIGNED TO PROMOTE THE OBJECTS OF

MECHANIC INSTITUTES,
LITERARY AND SCIENTIFIC ASSOCIATIONS,
BOROUGH AND CITY FREE LIBRARIES,
OF STUDENTS GENERALLY.

DRAWING BOOKS

For Students' use in Schools, Mechanics' Institutions, and others, desiring to acquire a superior method of Drawing and Shadowing, as practised in the best Schools of France.

COURS ELEMENTAIRES de LAVIS appliqué à L'ARCHITECTURE ; folio volume, containing 50 elaborately engraved plates, in shadows and tints, very finely executed by the best artists of France, price 2*l*. 10*s.* *Paris.*

COURS ELEMENTAIRES de LAVIS appliqué à ORNEMENTATION ; folio volume, containing 50 elaborately engraved plates, in shadows and tints, very finely executed by the best artists of France, price 2*l*. 10*s.* *Paris.*

ETUDES PROGRESSIVES ET COMPLETES D'ARCHITECTUR de Lavis par J. B. Tripon ; large folio, 24 fine plates, comprising the Orders of Architecture, mouldings with profiles, ornaments, and forms of their proportion, art of shadowing, doors, balusters, parterres, &c. &c. &c., price 1*l*. 4*s.* *Paris.*

In 4to., with 14 plates, in half cloth, boards, price 7*s.* 6*d.*

PRACTICAL RULES ON DRAWING FOR THE OPERATIVE BUILDER AND YOUNG STUDENT in Architecture.

1. Practical Rules on Drawing, Outlines.
2. Practical Rules on Drawing, the Grecian and Roman Orders.
3. Practical Rules on Light and Shade.
4. Practical Rules on Colour, &c. &c.

In 4to., boards, 8 plates, and 76 woodcuts, price 6*s.*

ARCHITECTURE OF MACHINERY. An Essay on Propriety of Form and Proportion. Intended as a guide to assist the Student in the Drawing and Designing of Machinery. For the use of Students and Schoolmasters.

MR. WEALE'S

SERIES OF RUDIMENTARY WORKS.

MR. WEALE has prepared for publication, in a neat and convenient size, a series of original and useful Volumes, by the most esteemed writers, forming a Rudimentary Course for the easy comprehension of the leading principles of various Sciences.

It has been remarked that "those who are in the ship of Science ought to remember that the disciples cannot arrive without the aid of boats." Popular Treatises are to Science what boats are to large ships: they assist people in getting aboard. But as no one would trust himself to a weak and inefficient boat, so no one ought to begin the study of Science with an imperfect guide. It sometimes happens that popular treatises are made to appear easy by the omission of those very details which are most essential to be known: they state results without going through the necessary processes by which those results are gained: they deal largely in facts, and leave principles untouched.

The only method of avoiding this error is to confide to men who are masters of their respective subjects the task of drawing up Popular Introductions to the several branches of Science, as well as uniting elementary principles with practical applications. The Publisher trusts that the following list of names will be a sufficient guarantee to the Public that what he proposes to attempt in the cause of Popular Instruction will be done well; and that these little treatises will fully answer the purposes for which they are intended, namely, to become convenient and accurate Guide-Books in Popular Institutions generally, while their low price will place them within the reach of all classes earning their daily bread, to many of whom a knowledge of the elements, together with the practice, of the Sciences are positive gains in the common pursuits of life, as well as a means of winning from gross tastes, and presenting to the mind noble and worthy objects of study. The series, also, is extended to the Elemental and Practical Science of Mathematics, for those who desire to advance and perfect their studies. Together with an Educational Series. The whole in demy 12mo., as follows:—

1. CHEMISTRY, by Prof. Fownes, F.R.S., including Agricultural Chemistry, for the use of Farmers. 4th edition . . . . . 1s.
2. NATURAL PHILOSOPHY, by Charles Tomlinson. 3rd edition . 1s.
3. GEOLOGY, by Col. Portlock, F.R.S., &c. 3rd edition . . 1s. 6d.
4, 5. MINERALOGY, with Mr. Dana's additions, 2 vols. in 1. 2nd edition 2s.

SUPPLEMENTARY VOLUMES of the Rudimentary Series, Published and Preparing for Publication, for the years 1858 and 1859 :—

** The above Supplementary Volumes are of an important character, and add considerably to the usefulness of an already admitted and most valuable series of technical works : the established reputation of which, and the extensive sale in all parts of the world, has given a cheering result of a long and laborious task, and on which a very large capital has been expended.

MR. WEALE'S

NEW SERIES OF EDUCATIONAL WORKS.

THE
SERIES OF EDUCATIONAL WORKS

ARE ON SALE IN TWO KINDS OF BINDING.

HAMILTON'S Outlines of the History of England, 4 vols. in 1, bound in cloth . . . . **5s.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **5s. 6d.**
LEVIEN'S History of Greece, 2 vols. in 1 bound in cloth . . **3s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **5s. 6d.**
———— History of Rome. 2 vols. in 1, bound in cloth . . **3s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **5s. 6d.**
CHRONOLOGY of Civil and Ecclesiastical History, Literature, Art, &c., 2 vols. in 1, bound in cloth . . . . **5s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **8s. 6d.**
CLARKE'S Dictionary of the English Language, bound in cloth . **4s. 6d.**
———— in half morocco, gilt, marbled edges . . . . . . **6s. 6d.**
———— bound with Dr. Clarke's English Grammar, in cloth . **5s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **6s. 6d.**
HAMILTON'S Greek and English and English and Greek Dictionary, 4 vols. in 1, bound in cloth . . . . **5s.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **5s. 6d.**
———— Ditto, with the Greek Grammar, bound in cloth . . **6s.**
———— Ditto, with Ditto, in half morocco, gilt, marbled edges . **6s. 6d.**
GOODWIN'S Latin and English and English and Latin Dictionary, 2 vols. in 1, bound in cloth . . . . **4s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **5s.**
———— Ditto, with the Latin Grammar, bound in cloth . . **5s. 6d.**
———— Ditto, with Ditto, in half morocco, gilt, marbled edges . **6s. 6d.**
ELWES'S French and English and English and French Dictionary, 2 vols. in 1, in cloth . . . . **3s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **4s.**
———— Ditto, with the French Grammar, bound in cloth . . **4s. 6d.**
FRENCH and English Phrase Book, or Vocabulary of all Conversational Words, elaborately set forth for Travelling Use, as a Self-Interpreter, bound . . **1s. 6d.**
ELWES'S Italian, English, and French,—English, Italian, and French,—French, Italian, and English Dictionary, 3 vols. in 1, bound in cloth . . **7s. 6d.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **8s. 6d.**
———— Ditto, with the Grammar, bound in embossed cloth, marbled edges . **8s. 6d.**
———— Ditto, with Ditto, in half morocco, gilt, marbled edges . **9s.**
ELWES'S Spanish and English and English and Spanish Dictionary, 4 vols. in 1, bound in cloth . . . . **5s.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **6s.**
———— Ditto, with the Grammar, bound in cloth . . . . **6s.**
———— Ditto, with Ditto, in half morocco, gilt, marbled edges . **6s. 6d.**
HAMILTON'S English, German, and French,—German, French, and English,—French, German, and English Dictionary, 3 vols. in 1, bound in cloth . . **4s.**
———— Ditto, in half morocco, gilt, marbled edges . . . . **5s.**
———— Ditto, with the Grammar, bound in embossed cloth, marbled edges . **5s.**
———— Ditto, with Ditto, in half morocco, gilt, marbled edges . **5s. 6d.**
BRESLAUS Hebrew and English Dictionary, with the Grammar, 2 vols. in 1, bound in cloth . . . . **5s. 6d.**
———— Ditto, 2 vols. in 1, in half morocco, 9s. 6d.—With vol. 3, English and Hebrew . . . . **12s. 6d.**

LATIN SERIES.

12. CICERO. First and Second Philippics; Orations for Milo, for Marcellus, and for Ligarius.
13. CICERO. De Officiis.
14. CICERO. De Amicitiâ, de Senectute, and Brutus.
15. JUVENAL and PERSIUS.
16. LIVY. Books I. to V., in 2 parts.
17. LIVY. Books XXI. and XXII.
18. TACITUS. Agricola; Germania; and Annals, Book I.
19. SELECTIONS FROM TIBULLUS, OVID, PROPERTIUS, AND LUCRETIUS.
20. SELECTIONS FROM SUETONIUS, AND THE LATER LATIN WRITERS.

GREEK SERIES.

1. INTRODUCTORY GREEK READER. On the same plan as the Latin Reader.
2. XENOPHON. Anabasis, I., II., III.
3. XENOPHON. Anabasis, IV., V., VI., VII.
4. LUCIAN. Select Dialogues.
5. HOMER. Iliad, I. to VI.
6. HOMER. Iliad, VII. to XII.
7. HOMER. Iliad, XIII. to XVIII.
8. HOMER. Iliad, XIX. to XXIV.
9. HOMER. Odyssey, I. to VI.
10. HOMER. Odyssey, VII. to XII.
11. HOMER. Odyssey, XIII. to XVIII.
12. HOMER. Odyssey, XIX. to XXIV.; and Hymns.
13. PLATO. Apology, Crito, and Phædo.
14. HERODOTUS, I., II.
15. HERODOTUS, III., IV.
16. HERODOTUS, V., VI., and part of VII.
17. HERODOTUS. Remainder of VII., VIII., and IX.
18. SOPHOCLES. Œdipus Rex.
19. SOPHOCLES. Œdipus Coloneus.
20. SOPHOCLES. Antigone.
21. SOPHOCLES. Ajax.
22. SOPHOCLES. Philoctetes.
23. EURIPIDES. Hecuba.
24. EURIPIDES. Medea.
25. EURIPIDES. Hippolytus.
26. EURIPIDES. Alcestis.
27. EURIPIDES. Orestes.
28. EURIPIDES. Extracts from the Remaining Plays.
29. SOPHOCLES. Extracts from the Remaining Plays.
30. ÆSCHYLUS. Prometheus Vinctus.
31. ÆSCHYLUS. Persæ.
32. ÆSCHYLUS. Septem contra Thebas.
33. ÆSCHYLUS. upwards.
34. ÆSCHYLUS. Eumenides.
35. ÆSCHYLUS. Agamemnon.
36. ÆSCHYLUS. Supplices.
37. PLUTARCH. Select Lives.
38. ARISTOPHANES. Clouds.
39. ARISTOPHANES. Frogs.
40. ARISTOPHANES. Selections from the Remaining Comedies.
41. THUCYDIDES, I.
42. THUCYDIDES, II.
43. THEOCRITUS. Select Idyls.
44. PINDAR.
45. ISOCRATES.
46. HESIOD.

Preparing for Publication,

ORATORY AND PUBLIC SPEAKING.

A FIRST BOOK for Youths of Ten Years of Age, of well selected Readings, and for Practice in Oratory and the inculcation of Elocution; adapted for Recitations and Gesture, and the improvement of Voice and Pronunciation. To be used in Schools and for Home Instruction.

SECOND BOOK for Youth of Fifteen Years of Age and upwards. Readings, Speaking, Pronunciation, and Elocution, for Public and Private Schools, and for Home Practice.

THIRD BOOK for Young Men, for Public Speaking, Legislative, Legal, &c., Recitations in Schools and Colleges, selected from the best Greek, Latin, and English Authors.

MATHEMATICS

FOR

PRACTICAL MEN:

BEING

A COMMON-PLACE BOOK

OF

PURE AND MIXED MATHEMATICS,

DESIGNED CHIEFLY FOR THE USE OF

CIVIL ENGINEERS, ARCHITECTS, AND SURVEYORS.

BY OLINTHUS GREGORY, LL.D., F.R.A.S.

THIRD EDITION, REVISED AND ENLARGED.

BY HENRY LAW,

CIVIL ENGINEER.

CONTENTS.

PART I.—PURE MATHEMATICS.

PART II.—MIXED MATHEMATICS.

APPENDIX

In 18mo., in boards, comprising 390 pages, price 5s.

A SYNOPSIS OF PRACTICAL PHILOSOPHY,

alphabetically arranged, containing a great variety of Theorems, Formulæ, and Tables, from the most accurate and recent authorities in various branches of Mathematics and Natural Philosophy: with Tables of Logarithms.

By the Rev. JOHN CARR, M.A., late Fellow of Trinity College, Cambridge.

John Weale's Catalogue of his Publications of Works on Architecture, Civil, Mechanical, Military, and Naval Engineering, gratis ; if by post, 1d.

HINTS

TO

YOUNG ARCHITECTS:

COMPRISING

ADVICE TO THOSE WHO, WHILE YET AT SCHOOL ARE DESTINED
TO THE PROFESSION;

SUCH AS, HAVING PASSED THEIR PUPILAGE, ARE ABOUT TO TRAVEL

AND TO THOSE WHO, HAVING COMPLETED THEIR EDUCATION,
ARE ABOUT TO PRACTISE:

TOGETHER WITH

A MODEL SPECIFICATION:

INVOLVING A GREAT VARIETY OF INSTRUCTIVE AND SUGGESTIVE MATTER
CALCULATED TO FACILITATE THEIR PRACTICAL OPERATIONS;

AND TO DIRECT THEM IN THEIR CONDUCT, AS THE RESPONSIBLE
AGENTS OF THEIR EMPLOYERS,

AND AS THE RIGHTFUL JUDGES OF A CONTRACTOR'S DUTY.

By GEORGE WIGHTWICK, Architect.

CONTENTS :—

In One Large Volume Octavo, Eleven Hundred Pages, with numerous
Engravings, price 1l. 8s.,

A GENERAL TEXT BOOK,

FOR THE

CONSTANT USE AND REFERENCE OF

ARCHITECTS, ENGINEERS, SURVEYORS, SOLICITORS, AUCTIONEERS, LAND AGENTS, AND STEWARDS,

IN ALL THEIR SEVERAL AND VARIED PROFESSIONAL OCCUPATIONS;

AND FOR THE

ASSISTANCE AND GUIDANCE OF

COUNTRY GENTLEMEN AND OTHERS

ENGAGED IN THE

TRANSFER, MANAGEMENT, OR IMPROVEMENT OF LANDED PROPERTY:

CONTAINING

THEOREMS, FORMULÆ, RULES, AND TABLES

IN GEOMETRY, MENSURATION, AND TRIGONOMETRY; LAND MEASURING, SURVEYING,
AND LEVELLING; RAILWAY AND HYDRAULIC ENGINEERING; TIMBER MEASUR-
ING; THE VALUATION OF ARTIFICERS' WORK, ESTATES, LEASEHOLDS, LIFEHOLDS,
ANNUITIES, TILLAGES, FARMING STOCK, AND TENANT RIGHT; THE ASSESSMENT
OF PARISHES, RAILWAYS, GAS AND WATER WORKS; THE LAW OF DILAPIDA-
TIONS AND NUISANCES, APPRAISEMENTS AND AUCTIONS, LANDLORD AND
TENANT, AGREEMENTS AND LEASES.

TOGETHER WITH EXAMPLES OF VILLAS AND COUNTRY HOUSES.

BY EDWARD RYDE,

Civil Engineer and Land Surveyor, Author of several Professional Works.

TO WHICH ARE ADDED SEVERAL CHAPTERS ON

AGRICULTURE AND LANDED PROPERTY,

BY PROFESSOR DONALDSON,

Author of several Works on Agriculture.

CONTENTS

EXAMPLES OF VILLAS AND COUNTRY HOUSES.

ON LANDED PROPERTY, BY PROFESSOR DONALDSON.

I.—Landlord and Tenant—their Position and Connections.

II.—Lease of Land, Conditions, and Restrictions; Choice of Tenant and Assignation of the Deed.

III.—Cultivation of Land, and Rotation of Crops.

IV.—Buildings necessary on Cultivated Lands—Dwelling Houses, Farmeries, and Cottages for Labourers.

V.—Laying-out Farms, Roads, Fences, and Gates.

VI.—Plantations—Young and old Timber.

VII.—Meadows and Embankments, Beds of Rivers, Water Courses, and Flooded Grounds.

VIII.—Land Draining, Open and Covered,—Plan, Execution, and Arrangement between Landlord and Tenant.

IX.—Minerals—Working and Value.

X.—Expenses of an Estate—Regulations of Disbursements—and Relation of the appropriate Expenditures.

XI.—Valuation of Landed Property; of the Soil, of Houses, of Woods, of Minerals, of Manorial Rights, of Royalties, and of Fee Farm Rents.

XII.—Land Steward and Farm Bailiff: Qualifications and Duties.

XIII.—Manor Bailiff, Woodreve, Gardener, and Gamekeeper—their Position and Duties.

XIV.—Fixed days of Audit—Half-Yearly Payments of Rents—Form of Notices, Receipts, and of Cash Books, General Map of Estates, and of each separate Farm—Concluding Observations.

BRIDGES.

45.

In 4 vols. royal 8vo, illustrated by 138 engravings and 92 wood-cuts, bound in 3 vols. half-morocco, price £4. 10s.

THE THEORY, PRACTICE, AND ARCHITECTURE

OF

BRIDGES OF STONE, IRON, TIMBER, AND WIRE;

WITH EXAMPLES ON THE PRINCIPLE OF SUSPENSION.

DIVISIONS OF THE WORK.

THEORY OF BRIDGES. By James Hann, King's College, London.

GENERAL PRINCIPLES OF CONSTRUCTION, &c. Translated from Gauthey.

THEORY OF THE ARCH, &c. By Professor Moseley.

PAPERS ON FOUNDATIONS. By T. Hughes, C.E.

ACCOUNT OF HUTCHESON BRIDGE, GLASGOW, with Specification. By the late Robert Stevenson, C.E.

MATHEMATICAL PRINCIPLES OF DREDGE'S SUSPENSION BRIDGE.

ESSAY AND TREATISES ON THE PRACTICE AND ARCHITECTURE OF Bridges. By William Hosking, F.S.A., Arch². and C.E.

SPECIFICATION OF CHESTER DEE BRIDGE.

PRACTICAL DESCRIPTION OF THE TIMBER BRIDGES, &c., ON THE UTICA AND SYRACUSE RAILROAD, U.S. By B.F. Isherwood, C.E., New York.

Description of the Plates.—General Index, &c., &c., &c.

LIST OF PLATES.

In 1 vol. 4to., with 74 plates, extra cloth boards and lettered, price 21s.,

THE CARPENTER'S NEW GUIDE:

OR,

THE BOOK OF LINES FOR CARPENTERS,

GEOMETRICALLY EXPLAINED:

COMPRISING ALL THE ELEMENTARY PRINCIPLES ESSENTIAL FOR ACQUIRING A
KNOWLEDGE OF THE THEORY AND PRACTICE OF CARPENTRY.

A NEW EDITION,

FOUNDED ON THAT OF THE LATE PETER NICHOLSON'S STANDARD WORK;

REVISED BY

ARTHUR ASHPITEL, ARCHITECT, F.S.A., F.I.B.A.

TOGETHER WITH

PRACTICAL RULES ON DRAWING,

By GEORGE PYNE, OF OXFORD, ARTIST.

The Work is divided in Three Divisions with Seventy-four Illustrative Plates, as follows:

Division A.—Practical Geometry, and of Carpentry, explaining the principles in all its parts, by the late Peter Nicholson. (Pages 1 to 80—Plates 1 to 60.)

Division B.—Practical Mathematics, Mensu-

ration, &c., by Arthur Ashpitel, Architect. (Pages 1 to 22.)

Division C.—Practical Rules on Drawing, for the Operative Builder and Young Student in Architecture. (Pages 1 to 80—Plates 1 to 14.)

With 72 Engravings, new, improved, and extended edition, price 2l. 12s. 6d.,
extra large 4to, extra cloth boards and lettered,

THE PRACTICAL RAILWAY ENGINEER:

EXAMPLES OF THE MECHANICAL AND ENGINEERING OPERATIONS AND STRUCTURES
COMBINED IN THE MAKING OF A RAILWAY.

By G. D. DEMPSEY, C.E.

CONTENTS.

Section I.—Curves, gradients, gauge, and slopes.

Section II.—Survey and levels for a railway—Parliamentary plan and section—Limits of deviation—Setting out the line—Working plans and sections—Computing quantities—Opening the ground.

Section III.—Earthworks, cuttings, embankments, and drains.

Section IV.—Retaining walls, bridges, tunnels, &c.

Section V.—Permanent way and construction.

Section VI.—Stations, &c.

Section VII.—Rolling stock — Carriages, trucks, wheels, and axles—Brakes, and details—Locomotive engines and tenders.

Section VIII.—Signals and electric telegraph.

LIST OF PLATES.

1. Cuttings.
2, 3, 4. Earthworks, excavating.
5. Ditto, embanking.
6. Ditto, waggons.
7. Drains under bridges.
8. Brick and stone culverts.
9. Paved crossings.
10. Railway bridges, diagram.
11, 12, 13, 14. Bridges, brick and stone.
15, 16. Ditto, iron.
17, 18, 19, 20, 21. Ditto, timber.
22. Centers for bridges.
23, 24, 25, 26, 27. "Pont de Montlouis."
28. "Pont du Chene"
29. Suspension bridge.
30. Box-girder bridge.
31. Trestle bridge and Chepstow bridge.
32. Details of Chepstow bridge.
33. Creosoting, screw-piling, &c.
34. Permanent way and rails.
35. Ditto, chairs.
36. Ditto, fish-joints, &c.
37. Ditto, fish-joint chairs.
38, 39. Ditto, cast-iron sleepers, &c.
40. Ditto, Stephenson's, Brunel's, Hemans's, Macneill's, and Dockray's.
41. Ditto, crossings.
42. Ditto, details.
43. Ditto, spring-crossings, &c.
44. Ditto, turn-table.
45, 46. Terminal station.
47, 48, 49. Stations.
50. Goods stations.
51. Polygonal engine-house.
52. Engine-house.
53. Watering apparatus.—(A). Tanks.
54. Ditto, (B.) Details of pumps.
55. Ditto, (C.) Details of engines.
56. Ditto, (D.) Cranes.
57. Hoisting machinery.
58. Ditto, details.
59. Traversing platform.
60. Ditto, details.
61. Station-roof at King's Cross.
62. Ditto, Liverpool.
63. Ditto, Birmingham.
64, 65. Railway carriages.
66. Ditto, details.
67, 68. Railway trucks and wheels.
69. Iron and covered waggons.
70. Details of brakes.
71. Wheels and details.
72. Portrait.

In 1 Vol. 4to, extra cloth, boards and lettered, 67 Engravings, 21s.

DESIGNS AND EXAMPLES OF COTTAGES, VILLAS, AND COUNTRY HOUSES ;

BEING THE STUDIES OF SEVERAL EMINENT ARCHITECTS AND BUILDERS.

CONSISTING OF PLANS, ELEVATIONS, AND PERSPECTIVE VIEWS, WITH
APPROXIMATE ESTIMATES OF THE COST OF EACH.

In imperial 8vo., with 13 large folding Plates, extra cloth boards, price 12s.

A PRACTICAL AND THEORETICAL ESSAY ON OBLIQUE BRIDGES.

By GEORGE WATSON BUCK, M. Inst. C.E.

TOGETHER WITH A

DESCRIPTION TO DIAGRAMS FOR FACILITATING THE CONSTRUCTION OF OBLIQUE BRIDGES.

By W. H. BARLOW, C.E.,

Second Edition, corrected and improved.

In 1 vol. 4to., 50 plates, with dimensions, extra cloth boards, price 21s.

EXAMPLES FOR BUILDERS, CARPENTERS, AND JOINERS ;

BEING WELL-SELECTED ILLUSTRATIONS OF RECENT MODERN ART AND CONSTRUCTION.

CONTENTS OF PLATES.